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Effects of Appliance Type and Operating Variables on Woodstove Emissions. Volume 2. Appendices D-F

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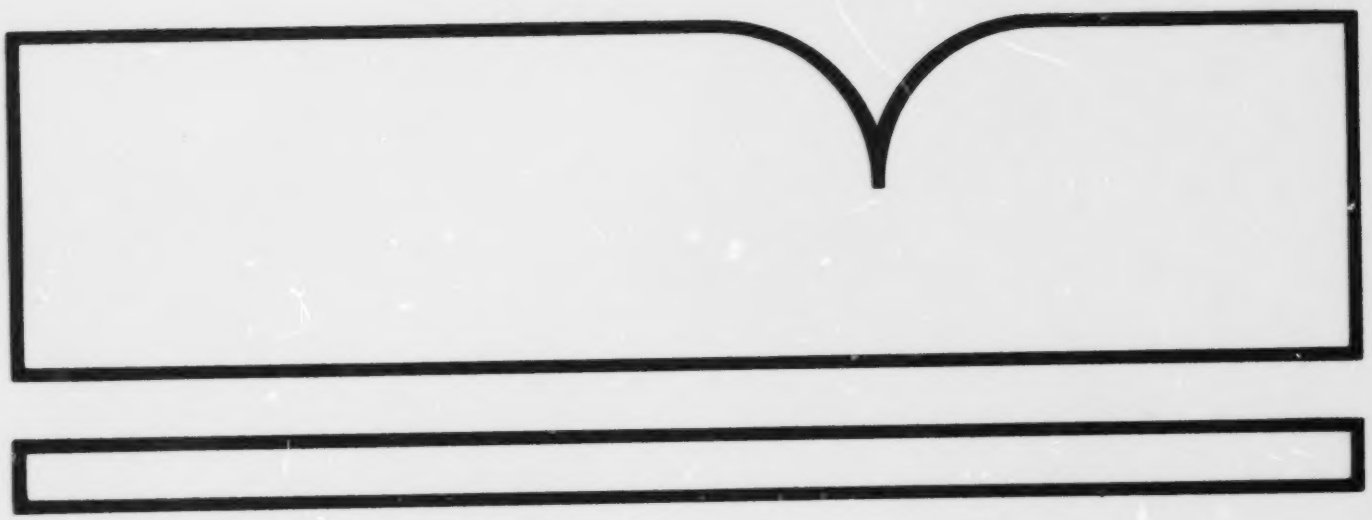

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Effects of Appliance Type and Operating Variables on Woodstove Emissions

Volume II
Appendices D-F

by

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16. ABSTRACT The report gives results of a project, in support of the Integrated Air Cancer Project (IACP), to provide data on the specific effects of appliance type and operating variables on woodstove emissions. Samples of particulate material and volatile organic compounds (VOCs) were collected. Particulate samples were analyzed for different organic fractions including specific polynuclear aromatic hydrocarbon (PAH) compounds. Inorganic matter on the filters was also analyzed. Results were calculated for pollutant concentrations, emission rates, and emission factors. Twelve test runs were conducted on a conventional stove, and two on a catalyst-equipped stove. Operating variables included fuel type (oak and pine), altitude (80 and 800 m), and burn rate (high and low). Test data were analyzed using analysis of variance and linear regression procedures. Although the data do not show strong statistical significance due to variability of results, some general trends do appear to be present, and conclusions can be drawn as to the effects of various operating variables on woodstove emissions. At the 99% confidence bound (CB), oak fuel reduced emissions of total PAH compounds relative to pine fuel. Emissions of carbon monoxide (CO) showed a significant decrease from low to high burn rates, and a small decrease when oak, rather than pine, is used.

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Abstract

This project was conducted in support of the Integrated Air Cancer Project (IACP) to provide data on the specific effects of appliance type and operating variables on woodstove emissions. Samples of particulate material and volatile organic compounds (VOC) were collected. Particulate samples were analyzed for different organic fractions, including specific polynuclear aromatic hydrocarbon (PAH) compounds. Inorganic matter on the filters was also analyzed. Results were calculated for pollutant concentrations, emission rates and emission factors. Twelve test runs were conducted on a conventional stove, and two runs were conducted on a catalyst-equipped stove. Operating variables included fuel type (oak and pine), altitude (80 meters and 800 meters) and burn rate (high and low).

Test data were analyzed using analysis of variance and linear regression procedures. Although the data do not show strong statistical significance due to variability of results, some general trends do appear to be present and conclusions can be drawn as to the effects of various operating variables on woodstove emissions. At the 99% confidence bound (CB), oak fuel reduced emissions of total PAH compounds relative to pine fuel. Emissions of carbon monoxide showed a significant decrease from low to high burn rates, and a small decrease when oak, rather than pine, fuel was used. The catalytic stove (with a used combustor) reduced emissions of carbon monoxide, but did not show significant reductions of total particulate material at the 99% CB. No altitude effects were noted at the 99% CB.

At the 95% CB, oak fuel reduced the concentration, emission rate and emission factor for many individual PAH compounds, and reduced the emission factor for total PAH compounds. Marginal decreases in benzene were also attributed to the use of oak, rather than pine, fuel.

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(*) In Volume I.

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BURN RATE (kg/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.2	1.6	-0.4	1.4	2.5	5.4	16.4	Total
1.1	1.1	0.0	1.1	3.0	11.0	-1.3	A
1.7	1.7	-0.0	1.7	6.0	-0.7	-0.6	C
1.4	1.3	0.1	1.3	5.0	-0.6	0.0	AC
3.2	3.1	0.0	3.2	-0.4	0.5	5.6	D
2.9	2.9	0.0	2.9	-0.4	-1.1	0.1	AD
2.9	2.3	0.6	2.6	-0.3	0.0	-1.6	CD
2.6	2.1	0.5	2.3	-0.3	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.3	0.0	-0.1	1.4	0.0	-0.4
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-1.4	0.0	-0.6	6.2	0.2	-1.8
@95%CB,	-1.0	0.0	-0.5	4.6	0.1	-1.3
@99%CB,	-0.6	0.0	-0.3	2.7	0.1	-0.8

"YATES" table for stove and rate for BURN RATE (kg/hr)

MEAN VALUE	1	2	
1.3	2.7	7.8	Total
1.4	5.1	1.3	B
1.9	0.1	2.4	D
3.2	1.2	1.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.6	1.2	0.6
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	2.0	3.7	1.8
Signif. if > +-1	1.5	2.7	1.3
Signif. if > +-1	0.9	1.6	0.8

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for STACK FLOW (m3/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.1	12.0	-0.9	11.5	26.7	52.5	126.3	Total
15.1	15.1	0.0	15.1	25.8	73.8	8.5	A
11.6	10.6	0.9	11.1	38.3	7.2	-3.7	C
15.4	14.0	1.3	14.7	35.5	1.3	0.0	AC
19.0	18.7	0.3	18.8	3.6	-0.9	21.3	D
19.5	19.5	0.0	19.5	3.6	-2.9	-5.8	AD
20.3	14.5	5.7	17.4	0.7	0.0	-2.0	CD
18.9	17.2	1.6	18.1	0.7	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	2.1	0.0	-0.9	5.3	-1.5	-0.5
Error Variance	0.6					
Variance of Mean	0.3					
Stand. Deviation	0.6					
(Signif. if > +-1)						
@90%CB,	2.6	0.0	-1.1	6.4	-1.8	-0.6
@95%CB,	1.9	0.0	-0.8	4.7	-1.3	-0.4
@99%CB,	1.1	0.0	-0.5	2.8	-0.8	-0.3

"YATES" table for stove and rate for STACK FLOW (m3/hr)

MEAN VALUE	1	2	
10.3	21.9	54.1	Total
11.5	32.2	6.7	B
13.4	1.2	10.4	D
18.8	5.4	4.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	3.3	5.2	2.1
Error Variance	0.6		
Variance of Mean	0.5		
Stand. Deviation	0.8		
Signif. if > +-1	2.9	4.4	1.8
Signif. if > +-1	2.1	3.2	1.3
Signif. if > +-1	1.3	1.9	0.8

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
STACK TEMPERATURE (C)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
90.0	119.0	-29.0	104.5	194.0	469.0	1237.0	Total
89.5	89.5	0.0	89.5	275.0	768.0	16.0	A
171.0	119.0	52.0	145.0	422.0	-30.0	5.0	C
142.0	118.0	24.0	130.0	346.0	46.0	0.0	AC
204.0	195.0	9.0	199.5	-15.0	81.0	299.0	D
222.5	222.5	0.0	222.5	-15.0	-76.0	76.0	AD
195.0	128.0	67.0	161.5	23.0	0.0	-157.0	CD
211.0	158.0	53.0	184.5	23.0	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	4.0	0.0	1.3	74.8	19.0	-39.3
Error Variance	701.1					
Variance of Mean	350.6					
Stand. Deviation	18.7					
(Signif. if > +-1)						
@90%CB,	0.1	0.0	0.0	2.7	0.7	-1.4
@95%CB,	0.1	0.0	0.0	2.0	0.5	-1.0
@99%CB,	0.1	0.0	0.0	1.2	0.3	-0.6

"YATES" table for stove and rate for
STACK TEMPERATURE (C)

MEAN VALUE	1	2	
103.0	207.5	536.0	Total
104.5	328.5	72.0	B
129.0	1.5	121.0	D
199.5	70.5	69.0	BD

	B Stove	D Rate	BD
Main Effects	36.0	60.5	34.5
Error Variance	701.1		
Variance of Mean	525.8		
Stand. Deviation	26.5		
Signif. if > +-1	0.9	1.5	0.9
Signif. if > +-1	0.7	1.1	0.6
Signif. if > +-1	0.4	0.7	0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
CO AVERAGE (%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.9	1.6	0.2	1.8	2.8	5.6	13.1	Total
1.0	1.0	0.0	1.0	2.8	7.5	-2.3	A
1.7	1.8	-0.0	1.8	4.3	-1.4	-1.0	C
0.9	1.2	-0.2	1.0	3.2	-0.8	0.0	AC
2.2	2.5	-0.3	2.3	-0.7	0.0	1.9	D
1.9	1.9	0.0	1.9	-0.7	-1.0	0.6	AD
1.6	2.0	-0.4	1.8	-0.4	-0.0	-1.0	CD
1.6	1.3	0.3	1.4	-0.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.6	0.0	-0.3	0.5	0.1	-0.3
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	-3.2	0.0	-1.5	2.6	0.8	-1.5
@95%CB,	-2.3	0.0	-1.1	1.9	0.6	-1.1
@99%CB,	-1.4	0.0	-0.6	1.2	0.4	-0.6

"YATES" table for stove and rate for
CO AVERAGE (%)

MEAN VALUE	1	2	
0.5	2.3	5.5	Total
1.8	3.3	2.6	B
1.0	1.3	1.0	D
2.3	1.4	0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.3	0.5	0.1
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	5.3	2.1	0.2
Signif. if > +-1	3.9	1.5	0.2
Signif. if > +-1	2.3	0.9	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
CO2 AVERAGE(%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8.0	11.3	-3.3	9.7	13.2	32.4	80.7	Total
3.5	3.5	0.0	3.5	19.3	48.3	-17.6	A
12.0	13.4	-1.4	12.7	25.4	-12.3	3.7	C
6.5	6.6	-0.1	6.5	23.0	-5.3	-0.0	AC
14.1	13.9	0.2	14.0	-6.2	6.1	15.9	D
11.4	11.4	0.0	11.4	-6.1	-2.4	7.0	AD
12.2	13.4	-1.2	12.8	-2.6	0.0	-8.5	CD
10.8	9.5	1.3	10.2	-2.7	-0.0	-0.0	ACD

"YATES" table for stove and rate for
CO2 AVERAGE(%)

MEAN VALUE	1	2	
12.2	21.9	49.3	Total
9.7	27.4	-1.9	B
13.4	-2.5	5.5	D
14.0	0.6	3.1	BD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-4.4	-0.0	0.9	4.0	1.8	-2.1
Error Variance	1.5					
Variance of Mean	0.7					
Stand. Deviation	0.9					
(Signif. if > +-1)						
@90%CB,	-3.5	-0.0	0.7	3.2	1.4	-1.7
@95%CB,	-2.6	-0.0	0.5	2.3	1.0	-1.2
@99%CB,	-1.5	-0.0	0.3	1.4	0.6	-0.7

	B	D	BD
	Stove	Rate	
Main Effects	-1.0	2.8	1.6
Error Variance	1.5		
Variance of Mean	1.1		
Stand. Deviation	1.2		
Signif. if > +-1	-0.5	1.6	0.9
Signif. if > +-1	-0.4	1.1	0.6
Signif. if > +-1	-0.2	0.7	0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
O2 AVERAGE (%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.8	8.7	3.1	10.3	26.2	47.8	81.1	Total
15.9	15.9	0.0	15.9	21.6	33.3	17.9	A
8.0	7.9	0.1	8.0	15.9	11.4	-3.2	C
13.9	13.4	0.5	13.7	17.4	6.5	0.0	AC
6.2	6.5	-0.3	6.3	5.7	-4.6	-14.5	D
9.6	9.6	0.0	9.6	5.7	1.4	-4.9	AD
7.3	6.8	0.5	7.0	3.3	0.0	6.0	CD
9.6	11.0	-1.4	10.3	3.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	4.5	0.0	-0.8	-3.6	-1.2	1.5
Error Variance	1.2					
Variance of Mean	0.6					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	3.9	0.0	-0.7	-3.2	-1.1	1.3
@95%CB,	2.9	0.0	-0.5	-2.3	-0.8	1.0
@99%CB,	1.7	0.0	-0.3	-1.4	-0.5	0.6

"YATES" table for stove and rate for
O2 AVERAGE (%)

MEAN VALUE	1	2	
8.0	18.3	31.9	Total
10.3	13.6	1.3	B
7.3	2.3	-4.6	D
6.3	-1.0	-3.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.6	-2.3	-1.6
Error Variance	1.2		
Variance of Mean	0.9		
Stand. Deviation	1.1		
Signif. if > +-1	0.4	-1.4	-1.0
Signif. if > +-1	0.3	-1.0	-0.7
Signif. if > +-1	0.2	-0.6	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
123.0

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
141.0	152.0	-11.0	146.5	294.0	573.0	1051.0	Total
147.5	147.5	0.0	147.5	279.0	478.0	-75.0	A
132.0	146.0	-14.0	139.0	177.5	2.0	108.0	C
148.0	132.0	16.0	140.0	300.5	-77.0	0.0	AC
172.0	44.0	128.0	108.0	1.0	-15.0	-95.0	D
69.5	69.5	0.0	69.5	1.0	123.0	-79.0	AD
206.0	133.0	73.0	169.5	-38.5	0.0	138.0	CD
120.0	142.0	-22.0	131.0	-38.5	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-18.8	0.0	27.0	-23.8	-19.8	34.5
Error Variance	1744.1					
Variance of Mean	872.1					
Stand. Deviation	29.5					
(Signif. if > +-1)						
@90%CB,	-0.4	0.0	0.6	-0.5	-0.5	0.8
@95%CB,	-0.3	0.0	0.5	-0.4	-0.3	0.6
@99%CB,	-0.2	0.0	0.3	-0.2	-0.2	0.3

"YATES" table for stove and rate for
123.0

MEAN VALUE	1	2	
77.0	223.5	331.5	Total
146.5	108.0	177.5	B
0.0	69.5	-115.5	D
108.0	108.0	38.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	88.8	-57.8	19.3
Error Variance	1744.1		
Variance of Mean	1308.1		
Stand. Deviation	41.8		
Signif. if > +-1	1.4	-0.9	0.3
Signif. if > +-1	1.1	-0.7	0.2
Signif. if > +-1	0.6	-0.4	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOTAL CAPTURE (g/kg)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
42.9	6.8	36.1	24.9	62.5	100.3	132.3	Total
37.6	37.6	0.0	37.6	37.7	32.1	34.5	A
6.6	18.4	-11.8	12.5	12.1	25.5	-17.0	C
23.4	27.1	-3.7	25.2	19.9	9.0	0.0	AC
4.0	3.6	0.4	3.8	12.8	-24.8	-68.2	D
8.3	8.3	0.0	8.3	12.8	7.8	-16.5	AD
7.7	7.7	0.0	7.7	4.5	0.0	32.6	CD
16.8	7.6	9.2	12.2	4.5	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	8.6	0.0	-4.3	-17.0	-4.1	8.2
Error Variance	154.2					
Variance of Mean	77.1					
Stand. Deviation	8.8					
(Signif. if > +-1)						
@90%CB,	0.7	0.0	-0.3	-1.3	-0.3	0.6
@95%CB,	0.5	0.0	-0.2	-1.0	-0.2	0.5
@99%CB,	0.3	0.0	-0.1	-0.6	-0.1	0.3

"YATES" table for stove and rate for TOTAL CAPTURE (g/kg)

MEAN VALUE	1	2	
4.7	29.5	37.5	Total
24.9	8.0	19.9	B
4.1	20.2	-21.6	D
3.8	-0.3	-20.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	10.0	-10.8	-10.3
Error Variance	154.2		
Variance of Mean	115.7		
Stand. Deviation	12.4		
Signif. if > +-1	0.5	-0.6	-0.6
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.3	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for GRAV (g/kg)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
26.7	3.8	22.9	15.2	39.9	62.8	81.7	Total
24.7	24.7	0.0	24.7	22.9	18.9	25.4	A
3.0	10.4	-7.4	6.7	7.3	19.0	-12.9	C
13.9	18.5	-4.6	16.2	11.5	6.5	-0.0	AC
2.0	2.1	-0.1	2.1	9.5	-17.0	-44.0	D
5.3	5.3	0.0	5.3	9.5	4.2	-12.5	AD
4.2	4.2	0.0	4.2	3.2	-0.0	21.2	CD
11.1	3.7	7.4	7.4	3.2	-0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	6.4	-0.0	-3.2	-11.0	-3.1	5.3
Error Variance	65.8					
Variance of Mean	32.9					
Stand. Deviation	5.7					
(Signif. if > +-1)						
@90%CB,	0.8	-0.0	-0.4	-1.3	-0.4	0.6
@95%CB,	0.5	-0.0	-0.3	-1.0	-0.3	0.5
@99%CB,	0.3	-0.0	-0.2	-0.6	-0.2	0.3

"YATES" table for stove and rate for GRAV (g/kg)

MEAN VALUE	1	2	
2.7	17.9	21.1	Total
15.2	3.2	13.5	B
1.1	12.6	-14.7	D
2.1	0.9	-11.7	BD

	B Stove	D Rate	BD
Main Effects	6.7	-7.3	-5.8
Error Variance	65.8		
Variance of Mean	49.3		
Stand. Deviation	8.1		
Signif. if > +-1	0.6	-0.6	-0.5
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.3	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for NAPHTHALENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7136.9	26613.6	-19476.7	16875.2	16875.2	50772.2	134097.7	Total
0.0	0.0	0.0	0.0	33896.9	83325.5	-94269.2	A
16350.7	41198.6	-24847.8	28774.7	28938.0	-40527.6	42471.1	C
3780.6	6463.9	-2683.3	5122.3	54387.5	-53741.5	-13554.3	AC
30989.1	21431.2	9557.9	26210.1	-16875.2	17021.7	32553.3	D
2727.9	2727.9	0.0	2727.9	-23652.4	25449.5	-13213.9	AD
42323.4	42323.4	0.0	42323.4	-23482.2	-6777.1	8427.8	CD
15759.7	8368.4	7391.4	12064.1	-30259.3	-6777.1	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-23567.3	-3388.6	10617.8	8138.3	-3303.5	2106.9
Error Variance	114994153.9					
Variance of Mean	57497077.0					
Stand. Deviation	7582.7					
(Signif. if > +-1)						
@90%CB,	-2.1	-0.3	0.9	0.7	-0.3	0.2
@95%CB,	-1.5	-0.2	0.7	0.5	-0.2	0.1
@99%CB,	-0.9	-0.1	0.4	0.3	-0.1	0.1

"YATES" table for stove and rate for NAPHTHALENE

MEAN VALUE	1	2	
12673.6	29548.8	79133.1	Total
16875.2	49584.3	7037.6	B
23374.2	4201.7	20035.5	D
26210.1	2836.0	-1365.7	BD

	B Stove	D Rate	BD
Main Effects	3518.8	10017.7	-682.9
Error Variance	114994153.9		
Variance of Mean	86245615.5		
Stand. Deviation	10723.5		
Signif. if > +-1	0.2	0.6	-0.0
Signif. if > +-1	0.2	0.5	-0.0
Signif. if > +-1	0.1	0.3	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1793.2	2203.5	-410.2	1998.4	3691.3	6332.4	12394.1	Total
1692.9	1692.9	0.0	1692.9	2641.2	6061.7	-5385.3	A
776.7	2738.9	-1962.2	1757.8	1818.1	-1179.9	1375.3	C
618.9	1147.8	-528.9	883.3	4243.5	-4205.3	-1138.1	AC
2187.4	1448.9	738.5	1818.1	-305.4	-1050.1	-270.8	D
0.0	0.0	0.0	0.0	-874.5	2425.4	-3025.4	AD
3315.4	3315.4	0.0	3315.4	-1818.1	-569.0	3475.5	CD
1127.7	728.7	399.0	928.2	-2387.2	-569.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1346.3	-284.5	343.8	-67.7	-756.3	868.9
Error Variance	500290.3					
Variance of Mean	250145.1					
Stand. Deviation	500.1					
(Signif. if > +-1)						
@90%CB,	-1.8	-0.4	0.5	-0.1	-1.0	1.2
@95%CB,	-1.3	-0.3	0.3	-0.1	-0.8	0.9
@99%CB,	-0.8	-0.2	0.2	-0.0	-0.4	0.5

"YATES" table for stove and rate for FLUORENE

MEAN VALUE	1	2	
919.3	2917.7	5357.3	Total
1998.4	2439.7	2275.7	B
621.5	1079.0	-478.0	D
1818.1	1196.6	117.6	BD

	B Stove	D Rate	BD
Main Effects	1137.8	-239.0	58.8
Error Variance	500290.3		
Variance of Mean	375217.7		
Stand. Deviation	707.3		
Signif. if > +-1	1.1	-0.2	0.1
Signif. if > +-1	0.8	-0.2	0.0
Signif. if > +-1	0.5	-0.1	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PHENANTHRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3649.6	10207.0	-6557.3	6928.3	17678.2	25549.4	49120.3	Total
10749.9	10749.9	0.0	10749.9	7871.2	23570.9	-19247.4	A
2549.3	10032.3	-7483.0	6290.8	4913.3	-888.8	3937.3	C
1313.5	1847.3	-533.8	1580.4	18657.6	-18358.6	-17064.0	AC
6016.9	3809.7	2207.2	4913.3	3821.6	-9807.0	-1978.4	D
0.0	0.0	0.0	0.0	-4710.4	13744.3	-17469.8	AD
16051.5	16051.5	0.0	16051.5	-4913.3	-8532.0	23551.3	CD
3525.8	1686.6	1839.2	2606.2	-13445.3	-8532.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-4811.8	-4266.0	984.3	-494.6	-4367.5	5887.8
Error Variance	10753437.6					
Variance of Mean	5376718.8					
Stand. Deviation	2318.8					
(Signif. if > +-1)						
@90%CB,	-1.4	-1.2	0.3	-0.1	-1.3	1.7
@95%CB,	-1.0	-0.9	0.2	-0.1	-0.9	1.3
@99%CB,	-0.6	-0.5	0.1	-0.1	-0.6	0.8

"YATES" table for stove and rate for PHENANTHRENE

MEAN VALUE	1	2	
3140.1	10068.4	20340.3	Total
6928.3	10271.9	3342.9	B
5358.6	3788.2	203.6	D
4913.3	-445.3	-4233.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	1671.4	101.8	-2116.8
Error Variance	10753437.6		
Variance of Mean	8065078.2		
Stand. Deviation	3279.2		
Signif. if > +-1	0.3	0.0	-0.4
Signif. if > +-1	0.3	0.0	-0.3
Signif. if > +-1	0.2	0.0	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1227.7	2775.3	-1547.5	2001.5	6200.7	8268.3	15893.2	Total
4199.2	4199.2	0.0	4199.2	2067.6	7624.8	-4739.9	A
981.5	2397.4	-1415.9	1689.5	1058.6	886.4	1374.5	C
333.0	423.3	-90.4	378.1	6566.2	-5626.3	-7018.2	AC
1187.6	929.6	258.0	1058.6	2197.7	-4133.1	-643.5	D
0.0	0.0	0.0	0.0	-1311.3	5507.6	-6512.7	AD
5566.9	5566.9	0.0	5566.9	-1058.6	-3509.1	9640.7	CD
1469.2	529.3	939.9	999.2	-4567.7	-3509.1	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1185.0	-1754.5	343.6	-160.9	-1628.2	2410.2
Error Variance	535773.9					
Variance of Mean	267886.9					
Stand. Deviation	517.6					
(Signif. if > +-1)						
@90%CB,	-1.6	-2.3	0.4	-0.2	-2.1	3.2
@95%CB,	-1.1	-1.7	0.3	-0.2	-1.6	2.3
@99%CB,	-0.7	-1.0	0.2	-0.1	-0.9	1.4

"YATES" table for stove and rate for PYRENE

MEAN VALUE	1	2	
701.9	2703.4	5107.7	Total
2001.5	2404.3	1012.6	B
1345.6	1299.6	-299.2	D
1058.6	-287.0	-1586.6	BD

	B Stove	D Rate	BD
Main Effects	506.3	-149.6	-793.3
Error Variance	535773.9		
Variance of Mean	401830.4		
Stand. Deviation	732.0		
Signif. if > +-1	0.5	-0.1	-0.7
Signif. if > +-1	0.3	-0.1	-0.5
Signif. if > +-1	0.2	-0.1	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
698.0	1565.9	-867.9	1131.9	2366.6	3470.7	7736.9	Total
1234.7	1234.7	0.0	1234.7	1104.0	4266.3	-4200.8	A
469.7	1314.0	-844.3	891.8	1420.8	-576.8	162.1	C
168.6	255.8	-87.2	212.2	2845.5	-3624.0	-1564.9	AC
830.9	2010.6	-1179.7	1420.8	102.8	-1262.6	795.6	D
0.0	0.0	0.0	0.0	-679.6	1424.7	-3047.1	AD
2524.4	2524.4	0.0	2524.4	-1420.8	-782.4	2687.3	CD
411.3	231.0	180.3	321.1	-2203.2	-782.4	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1050.2	-391.2	40.5	198.9	-761.8	671.8
Error Variance	289803.9					
Variance of Mean	144901.9					
Stand. Deviation	380.7					
(Signif. if > +-1)						
@90%CB,	-1.9	-0.7	0.1	0.4	-1.4	1.2
@95%CB,	-1.4	-0.5	0.1	0.3	-1.0	0.9
@99%CB,	-0.8	-0.3	0.0	0.2	-0.6	0.5

"YATES" table for stove and rate for ANTHRACENE

MEAN VALUE	1	2	
428.8	1560.7	3711.0	Total
1131.9	2150.3	1394.4	B
729.5	703.1	589.6	D
1420.8	691.3	-11.9	BD

	B Stove	D Rate	BD
Main Effects	697.2	294.8	-5.9
Error Variance	289803.9		
Variance of Mean	217352.9		
Stand. Deviation	538.3		
Signif. if > +-1	0.9	0.4	-0.0
Signif. if > +-1	0.6	0.3	-0.0
Signif. if > +-1	0.4	0.2	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORANTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
739.9	2835.5	-2095.7	1787.7	4732.1	6550.1	13222.6	Total
2944.4	2944.4	0.0	2944.4	1818.0	6672.5	-4992.9	A
729.3	2239.5	-1510.2	1484.4	1345.6	5.9	1067.2	C
333.3	333.9	-0.6	333.6	5326.9	-4998.7	-4615.2	AC
1486.5	1204.7	281.8	1345.6	1156.7	-2914.1	122.3	D
0.0	0.0	0.0	0.0	-1150.9	3981.3	-5004.6	AD
4490.0	4490.0	0.0	4490.0	-1345.6	-2307.6	6895.5	CD
1106.9	566.8	540.1	836.9	-3653.2	-2307.6	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1248.2	-1153.8	266.8	30.6	-1251.2	1723.9
Error Variance	704365.4					
Variance of Mean	352182.7					
Stand. Deviation	593.4					
(Signif. if > +-1)						
@90%CB,	-1.4	-1.3	0.3	0.0	-1.4	2.0
@95%CB,	-1.0	-1.0	0.2	0.0	-1.0	1.4
@99%CB,	-0.6	-0.6	0.1	0.0	-0.6	0.9

"YATES" table for stove and rate for FLUORANTHENE

MEAN VALUE	1	2	
729.2	2516.9	5130.6	Total
1787.7	2613.6	1136.0	B
1268.0	1058.5	96.7	D
1345.6	77.5	-980.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	568.0	48.3	-490.5
Error Variance	704365.4		
Variance of Mean	528274.1		
Stand. Deviation	839.3		
Signif. if > +-1	0.5	0.0	-0.4
Signif. if > +-1	0.3	0.0	-0.3
Signif. if > +-1	0.2	0.0	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(e)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1880.1	1276.7	603.5	1578.4	2837.2	4113.2	6353.9	Total
1258.9	1258.9	0.0	1258.9	1275.9	2240.7	-3421.9	A
347.3	2122.9	-1775.6	1235.1	516.7	-1513.8	-354.0	C
0.0	81.7	-81.7	40.8	1724.0	-1908.1	-1749.5	AC
607.7	425.7	182.1	516.7	-319.5	-1561.3	-1872.5	D
0.0	0.0	0.0	0.0	-1194.3	1207.3	-394.3	AD
1557.7	1557.7	0.0	1557.7	-516.7	-874.7	2768.6	CD
242.8	89.8	153.0	166.3	-1391.4	-874.7	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-855.5	-437.4	-88.5	-468.1	-98.6	692.2
Error Variance	358018.1					
Variance of Mean	179009.0					
Stand. Deviation	423.1					
(Signif. if > +-1)						
@90%CB,	-1.4	-0.7	-0.1	-0.7	-0.2	1.1
@95%CB,	-1.0	-0.5	-0.1	-0.5	-0.1	0.8
@99%CB,	-0.6	-0.3	-0.1	-0.3	-0.1	0.5

"YATES" table for stove and rate for BENZO(e)PYRENE

MEAN VALUE	1	2	
546.2	2124.6	2711.5	Total
1578.4	586.9	1478.7	B
70.2	1032.2	-1537.7	D
516.7	446.5	-585.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	739.3	-768.9	-292.8
Error Variance	358018.1		
Variance of Mean	268513.5		
Stand. Deviation	598.3		
Signif. if > +-1	0.8	-0.9	-0.3
Signif. if > +-1	0.6	-0.6	-0.2
Signif. if > +-1	0.4	-0.4	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
BENZO(b)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1381.4	583.6	797.8	982.5	2047.5	2629.1	4040.5	Total
1065.0	1065.0	0.0	1065.0	581.6	1411.4	-1588.6	A
162.6	942.0	-779.4	552.3	271.2	-440.5	-597.1	C
0.0	58.5	-58.5	29.3	1140.1	-1148.0	-1211.1	AC
318.5	224.0	94.5	271.2	82.5	-1466.0	-1217.7	D
0.0	0.0	0.0	0.0	-523.0	868.9	-707.5	AD
1008.5	1008.5	0.0	1008.5	-271.2	-605.5	2334.8	CD
192.5	70.9	121.6	131.7	-876.8	-605.5	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-397.1	-302.8	-149.3	-304.4	-176.9	583.7
Error Variance	127099.0					
Variance of Mean	63549.5					
Stand. Deviation	252.1					
(Signif. if > +-1)						
@90%CB,	-1.1	-0.8	-0.4	-0.8	-0.5	1.6
@95%CB,	-0.8	-0.6	-0.3	-0.6	-0.3	1.1
@99%CB,	-0.5	-0.4	-0.2	-0.4	-0.2	0.7

"YATES" table for stove and rate for
BENZO(b)FLUORANTHE

MEAN VALUE	1	2	
90.7	1073.2	1673.2	Total
982.5	600.1	834.3	B
328.8	891.8	-473.1	D
271.2	-57.6	-949.4	BD

	B Stove	D Rate	BD
Main Effects	417.1	-236.6	-474.7
Error Variance	127099.0		
Variance of Mean	95324.2		
Stand. Deviation	356.5		
Signif. if > +-1	0.8	-0.4	-0.9
Signif. if > +-1	0.6	-0.3	-0.7
Signif. if > +-1	0.3	-0.2	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(k)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
96.1	221.6	-125.5	158.9	434.7	538.5	1005.7	Total
275.8	275.8	0.0	275.8	103.8	467.3	-299.5	A
57.8	103.8	-46.0	80.8	92.0	59.2	-47.7	C
23.2	22.8	0.4	23.0	375.2	-358.7	-349.4	AC
105.7	78.3	27.4	92.0	117.0	-330.9	-71.2	D
0.0	0.0	0.0	0.0	-57.8	283.2	-417.9	AD
321.0	321.0	0.0	321.0	-92.0	-174.7	614.1	CD
79.9	28.7	51.2	54.3	-266.7	-174.7	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-74.9	-87.4	-11.9	-17.8	-104.5	153.5
Error Variance	2123.5					
Variance of Mean	1061.8					
Stand. Deviation	32.6					
(Signif. if > +-1)						
@90%CB,	-1.3	-1.8	-0.2	-0.4	-2.2	3.2
@95%CB,	-1.1	-1.3	-0.2	-0.3	-1.6	2.3
@99%CB,	-0.7	-0.8	-0.1	-0.2	-1.0	1.4

"YATES" table for stove and rate for BENZO(k)FLUORANTHE

MEAN VALUE	1	2	
30.6	189.4	377.8	Total
158.9	188.3	123.9	B
96.3	128.3	-1.1	D
92.0	-4.3	-132.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	62.0	-0.5	-66.3
Error Variance	2123.5		
Variance of Mean	1592.6		
Stand. Deviation	46.1		
Signif. if > +-1	0.9	-0.0	-1.0
Signif. if > +-1	0.7	-0.0	-0.7
Signif. if > +-1	0.4	-0.0	-0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
155.9	639.0	-483.1	397.5	1095.1	1412.7	2581.9	Total
697.6	697.6	0.0	697.6	317.6	1169.2	-760.4	A
154.5	352.0	-197.5	253.2	191.3	111.3	9.1	C
53.4	75.4	-22.0	64.4	977.9	-871.7	-978.0	AC
222.1	160.6	61.5	191.3	300.1	-777.5	-243.5	D
0.0	0.0	0.0	0.0	-188.9	786.5	-982.9	AD
829.1	829.1	0.0	829.1	-191.3	-489.0	1564.0	CD
244.7	52.9	191.8	148.8	-680.3	-489.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-190.1	-244.5	2.3	-60.9	-245.7	391.0
Error Variance	31344.7					
Variance of Mean	15672.3					
Stand. Deviation	125.2					
(Signif. if > +-1)						
@90%CB,	-1.0	-1.3	0.0	-0.3	-1.3	2.1
@95%CB,	-0.8	-1.0	0.0	-0.2	-1.0	1.6
@99%CB,	-0.5	-0.6	0.0	-0.1	-0.6	0.9

"YATES" table for stove and rate for BENZO(a)PYRENE

MEAN VALUE	1	2	
81.9	479.4	880.7	Total
397.5	401.3	296.8	B
210.0	315.5	-78.1	D
191.3	-18.7	-334.2	BD

	B Stove	D Rate	BD
Main Effects	148.4	-39.0	-167.1
Error Variance	31344.7		
Variance of Mean	23508.5		
Stand. Deviation	177.0		
Signif. if > +-1	0.6	-0.1	-0.6
Signif. if > +-1	0.4	-0.1	-0.5
Signif. if > +-1	0.2	-0.1	-0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for DIBENZO(a,h)ANTHRA

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	86.4	-86.4	43.2	241.9	268.3	592.7	Total
198.7	198.7	0.0	198.7	26.4	324.4	-102.4	A
20.4	12.3	8.2	16.4	44.9	149.2	19.2	C
0.0	20.1	-20.1	10.1	279.6	-251.5	-323.5	AC
62.1	27.6	34.5	44.9	155.5	-215.5	56.2	D
0.0	0.0	0.0	0.0	-6.3	234.7	-400.7	AD
243.1	243.1	0.0	243.1	-44.9	-161.8	450.1	CD
67.3	5.6	61.7	36.5	-206.6	-161.8	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-25.6	-80.9	4.8	14.0	-100.2	112.5
Error Variance	1293.3					
Variance of Mean	646.6					
Stand. Deviation	25.4					
(Signif. if > +-1)						
@90%CB,	-0.7	-2.2	0.1	0.4	-2.7	3.0
@95%CB,	-0.5	-1.6	0.1	0.3	-2.0	2.2
@99%CB,	-0.3	-0.9	0.1	0.2	-1.2	1.3

"YATES" table for stove and rate for DIBENZO(a,h)ANTHRA

MEAN VALUE	1	2	
77.8	121.0	174.2	Total
43.2	53.1	2.0	B
8.2	-34.6	-67.9	D
44.9	36.6	71.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.0	-34.0	35.6
Error Variance	1293.3		
Variance of Mean	969.9		
Stand. Deviation	36.0		
Signif. if > +-1	0.0	-0.6	0.7
Signif. if > +-1	0.0	-0.5	0.5
Signif. if > +-1	0.0	-0.3	0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL GC/MS PAH

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
44565.8	63284.7	-18718.9	53925.2	53925.2	142881.4	328190.3	Total
0.0	0.0	0.0	0.0	88956.2	185308.8*********		A
37976.9	108048.4	-70071.6	73012.7	64577.7*********		91184.4	C
9366.6	22520.4	-13153.8	15943.5	120731.1*********		-15141.2	AC
69054.8	51247.2	17807.6	60151.0	-53925.2	35031.0	42427.4	D
4426.7	4426.7	0.0	4426.7	-57069.1	56153.4	-12451.6	AD
94226.4	94226.4	0.0	94226.4	-55724.4	-3143.9	21122.5	CD
36143.4	16866.1	19277.3	26504.8	-67721.6	-11997.2	-8853.3	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-58610.1	-3785.3	22796.1	10606.9	-3112.9	5280.6
Error Variance	612216549.8					
Variance of Mean	306108274.9					
Stand. Deviation	17496.0					
(Signif. if > +-1)						
@90%CB,	-2.3	-0.1	0.9	0.4	-0.1	0.2
@95%CB,	-1.7	-0.1	0.6	0.3	-0.1	0.1
@99%CB,	-1.0	-0.1	0.4	0.2	-0.1	0.1

"YATES" table for stove and rate for
TOTAL GC/MS PAH

MEAN VALUE	1	2	
28263.5	82188.7	187512.8	Total
53925.2	105324.1	40639.7	B
45173.1	25661.7	23135.4	D
60151.0	14978.0	-10683.8	BD

	B Stove	D Rate	BD
Main Effects	20319.8	11567.7	-5341.9
Error Variance	612216549.8		
Variance of Mean	459162412.4		
Stand. Deviation	24743.0		
Signif. if > +-1	0.6	0.3	-0.1
Signif. if > +-1	0.4	0.2	-0.1
Signif. if > +-1	0.2	0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for NAPHTHALENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
79.1	319.8	-240.8	199.4	199.4	587.8	2262.0	Total
0.0	0.0	0.0	0.0	388.4	1674.2	-1467.1	A
189.5	438.4	-248.9	314.0	596.2	-439.0	670.8	C
58.1	90.8	-32.7	74.4	1078.0	-1028.2	-284.4	AC
588.4	399.7	188.6	494.0	-199.4	188.9	1086.3	D
102.1	102.1	0.0	102.1	-239.5	481.8	-589.2	AD
857.1	857.1	0.0	85[illegible]	-391.9	-40.1	292.9	CD
297.4	144.3	153.1	220.9	-636.3	-244.3	-204.3	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-366.8	-71.1	167.7	271.6	-147.3	73.2
Error Variance	18003.2					
Variance of Mean	9001.6					
Stand. Deviation	94.9					
(Signif. if > +-1)						
@90%CB,	-2.6	-0.5	1.2	1.9	-1.1	0.5
@95%CB,	-1.9	-0.4	0.9	1.4	-0.8	0.4
@99%CB,	-1.1	-0.2	0.5	0.9	-0.5	0.2

"YATES" table for stove and rate for NAPHTHALENE

MEAN VALUE	1	2	
130.6	330.0	1136.9	Total
199.4	806.9	250.1	B
312.8	68.8	476.8	D
494.0	181.2	112.4	BD

	B Stove	D Rate	BD
Main Effects	125.0	238.4	56.2
Error Variance	18003.2		
Variance of Mean	13502.4		
Stand. Deviation	134.2		
Signif. if > +-1	0.6	1.2	0.3
Signif. if > +-1	0.5	0.9	0.2
Signif. if > +-1	0.3	0.5	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.9	26.5	-6.6	23.2	56.0	87.9	206.3	Total
32.9	32.9	0.0	32.9	31.9	118.3	-81.1	A
9.0	29.1	-20.1	19.1	34.3	3.4	25.7	C
9.5	16.1	-6.6	12.8	84.1	-84.5	-31.9	AC
41.5	27.0	14.5	34.3	9.7	-24.1	30.4	D
0.0	0.0	0.0	0.0	-6.3	49.8	-87.9	AD
67.1	67.1	0.0	67.1	-34.3	-15.9	73.9	CD
21.3	12.6	8.7	16.9	-50.2	-15.9	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-20.3	-8.0	6.4	7.6	-22.0	18.5
Error Variance	78.0					
Variance of Mean	39.0					
Stand. Deviation	6.2					
(Signif. if > +-1)						
@90%CB,	-2.2	-0.9	0.7	0.8	-2.4	2.0
@95%CB,	-1.6	-0.6	0.5	0.6	-1.7	1.5
@99%CB,	-1.0	-0.4	0.3	0.4	-1.0	0.9

"YATES" table for stove and rate for FLUORENE

MEAN VALUE	1	2	
9.5	32.6	75.2	Total
23.2	42.6	39.7	B
8.3	13.7	9.9	D
34.3	26.0	12.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	19.8	5.0	6.1
Error Variance	78.0		
Variance of Mean	58.5		
Stand. Deviation	8.8		
Signif. if > +-1	1.5	0.4	0.5
Signif. if > +-1	1.1	0.3	0.3
Signif. if > +-1	0.7	0.2	0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PHENANTHRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
40.4	122.7	-82.2	81.5	302.6	393.8	859.4	Total
221.1	221.1	0.0	221.1	91.2	465.5	-275.5	A
29.5	106.8	-77.2	68.2	92.6	94.4	68.8	C
20.2	25.9	-5.8	23.1	372.9	-369.9	-369.2	AC
114.2	71.1	43.2	92.6	139.5	-211.4	71.7	D
0.0	0.0	0.0	0.0	-45.1	280.2	-464.3	AD
325.1	325.1	0.0	325.1	-92.6	-184.6	491.6	CD
66.5	29.1	37.4	47.8	-277.3	-184.6	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-68.9	-92.3	17.2	17.9	-116.1	122.9
Error Variance	1602.6					
Variance of Mean	801.3					
Stand. Deviation	28.3					
(Signif. if > +-1)						
@90%CB,	-1.6	-2.2	0.4	0.4	-2.8	2.9
@95%CB,	-1.2	-1.6	0.3	0.3	-2.0	2.2
@99%CB,	-0.7	-1.0	0.2	0.2	-1.2	1.3

"YATES" table for stove and rate for PHENANTHRENE

MEAN VALUE	1	2	
32.4	113.9	278.3	Total
81.5	164.4	70.1	B
71.7	49.2	50.5	D
92.6	20.9	-28.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	35.1	25.2	-14.1
Error Variance	1602.6		
Variance of Mean	1202.0		
Stand. Deviation	40.0		
Signif. if > +-1	0.6	0.4	-0.2
Signif. if > +-1	0.4	0.3	-0.2
Signif. if > +-1	0.3	0.2	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7.7	18.8	-11.1	13.3	38.5	51.3	135.0	Total
25.3	25.3	0.0	25.3	12.8	83.6	-66.5	A
5.4	14.0	-8.5	9.7	26.6	5.4	4.6	C
2.6	3.6	-1.0	3.1	57.0	-71.9	-37.2	AC
15.8	37.5	-21.7	26.6	12.0	-25.7	32.3	D
0.0	0.0	0.0	0.0	-6.6	30.4	-77.3	AD
51.1	51.1	0.0	51.1	-26.6	-18.6	56.1	CD
7.8	4.0	3.8	5.9	-45.3	-18.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-16.6	-9.3	1.2	8.1	-19.3	14.0
Error Variance	68.3					
Variance of Mean	34.2					
Stand. Deviation	5.8					
(Signif. if > +-1)						
@90%CB,	-1.9	-1.1	0.1	0.9	-2.2	1.6
@95%CB,	-1.4	-0.8	0.1	0.7	-1.6	1.2
@99%CB,	-0.8	-0.5	0.1	0.4	-1.0	0.7

"YATES" table for stove and rate for ANTHRACENE

MEAN VALUE	1	2	
4.4	17.7	54.1	Total
13.3	36.4	25.7	B
9.8	8.9	18.7	D
26.6	16.9	8.0	BD

	B Stove	D Rate	BD
Main Effects	12.9	9.4	4.0
Error Variance	68.3		
Variance of Mean	51.2		
Stand. Deviation	8.3		
Signif. if > +-1	1.1	0.8	0.3
Signif. if > +-1	0.8	0.6	0.2
Signif. if > +-1	0.5	0.3	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORANTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8.2	34.1	-25.9	21.1	81.3	102.3	233.9	Total
60.2	60.2	0.0	60.2	21.0	131.6	-73.2	A
8.5	23.8	-15.4	16.1	25.3	27.8	20.7	C
5.1	4.7	0.4	4.9	106.3	-100.9	-100.5	AC
28.2	22.5	5.8	25.3	39.0	-60.2	29.3	D
0.0	0.0	0.0	0.0	-11.2	80.9	-128.7	AD
90.9	90.9	0.0	90.9	-25.3	-50.3	141.2	CD
20.9	9.8	11.1	15.3	-75.6	-50.3	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-18.3	-25.1	5.2	7.3	-32.2	35.3
Error Variance	106.3					
Variance of Mean	53.2					
Stand. Deviation	7.3					
(Signif. if > +-1)						
@90%CB,	-1.7	-2.3	0.5	0.7	-3.0	3.3
@95%CB,	-1.2	-1.7	0.4	0.5	-2.2	2.4
@99%CB,	-0.7	-1.0	0.2	0.3	-1.3	1.4

"YATES" table for stove and rate for FLUORANTHENE

MEAN VALUE	1	2	
7.5	28.7	71.0	Total
21.1	42.3	22.0	B
7.0	13.6	13.7	D
25.3	8.4	-5.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	11.0	6.8	-2.6
Error Variance	106.3		
Variance of Mean	79.7		
Stand. Deviation	10.3		
Signif. if > +-1	0.7	0.4	-0.2
Signif. if > +-1	0.5	0.3	-0.1
Signif. if > +-1	0.3	0.2	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
13.6	33.4	-19.8	23.5	108.4	132.4	283.5	Total
84.9	84.9	0.0	84.9	24.0	151.1	-65.7	A
11.4	25.5	-14.1	18.4	19.9	48.5	26.8	C
5.1	5.9	-0.8	5.5	131.2	-114.3	-148.7	AC
22.5	17.3	5.2	19.9	61.5	-84.4	18.7	D
0.0	0.0	0.0	0.0	-12.9	111.2	-162.8	AD
112.7	112.7	0.0	112.7	-19.9	-74.4	195.7	CD
27.7	9.1	18.6	18.4	-94.3	-74.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-16.4	-37.2	6.7	4.7	-40.7	48.9
Error Variance	96.4					
Variance of Mean	48.2					
Stand. Deviation	6.9					
(Signif. if > +-1)						
@90%CB,	-1.6	-3.6	0.7	0.5	-4.0	4.8
@95%CB,	-1.2	-2.7	0.5	0.3	-2.9	3.5
@99%CB,	-0.7	-1.6	0.3	0.2	-1.7	2.1

"YATES" table for stove and rate for PYRENE

MEAN VALUE	1	2	
7.2	30.7	68.7	Total
23.5	38.0	18.2	B
18.0	16.2	7.2	D
19.9	1.9	-14.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	9.1	3.6	-7.2
Error Variance	96.4		
Variance of Mean	72.3		
Stand. Deviation	9.8		
Signif. if > +-1	0.6	0.2	-0.3
Signif. if > +-1	0.5	0.2	-0.4
Signif. if > +-1	0.3	0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
5.2	37.6	-32.4	21.4	76.3	105.7	215.7	Total
54.9	54.9	0.0	54.9	29.4	110.0	-79.8	A
13.8	36.2	-22.4	25.0	19.3	12.9	24.4	C
2.2	6.6	-4.4	4.4	90.6	-92.7	-108.1	AC
32.1	6.6	25.5	19.3	33.5	-46.9	4.2	D
0.0	0.0	0.0	0.0	-20.6	71.3	-105.7	AD
82.0	82.0	0.0	82.0	-19.3	-54.1	118.2	CD
14.0	3.2	10.7	8.6	-73.4	-54.1	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-19.9	-27.0	6.1	1.1	-26.4	29.6
Error Variance	233.6					
Variance of Mean	116.8					
Stand. Deviation	10.8					
(Signif. if > +-1)						
@90%CB,	-1.3	-1.7	0.4	0.1	-1.7	1.9
@95%CB,	-0.9	-1.2	0.3	0.0	-1.2	1.4
@99%CB,	-0.5	-0.7	0.2	0.0	-0.7	0.8

"YATES" table for stove and rate for BENZO(a)ANTHRACENE

MEAN VALUE	1	2	
13.1	34.5	80.4	Total
21.4	45.9	1.1	B
26.5	8.3	11.3	D
19.3	-7.2	-15.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.6	5.7	-7.8
Error Variance	233.6		
Variance of Mean	175.2		
Stand. Deviation	15.3		
Signif. if > +-1	0.0	0.3	-0.3
Signif. if > +-1	0.0	0.2	-0.3
Signif. if > +-1	0.0	0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(e)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
20.8	15.3	5.5	18.1	42.2	56.1	100.4	Total
24.1	24.1	0.0	24.1	13.9	44.4	-44.9	A
4.0	22.6	-18.6	13.3	9.7	-6.7	-3.4	C
0.0	1.1	-1.1	0.6	34.6	-38.2	-37.5	AC
11.5	7.9	3.6	9.7	6.0	-28.3	-11.7	D
0.0	0.0	0.0	0.0	-12.7	24.9	-31.5	AD
31.5	31.5	0.0	31.5	-9.7	-18.7	53.2	CD
4.6	1.5	3.0	3.1	-28.5	-18.7	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-11.2	-9.4	-0.9	-2.9	-7.9	13.3
Error Variance	39.8					
Variance of Mean	19.9					
Stand. Deviation	4.5					
(Signif. if > +-1)						
@90%CB,	-1.7	-1.4	-0.1	-0.4	-1.2	2.0
@95%CB,	-1.2	-1.0	-0.1	-0.3	-0.9	1.5
@99%CB,	-0.7	-0.6	-0.1	-0.2	-0.5	0.9

"YATES" table for stove and rate for BENZO(e)PYRENE

MEAN VALUE	1	2	
5.6	23.7	34.4	Total
18.1	10.7	21.3	B
0.9	12.5	-13.0	D
9.7	8.8	-3.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	10.6	-6.5	-1.8
Error Variance	39.8		
Variance of Mean	29.9		
Stand. Deviation	6.3		
Signif. if > +-1	1.1	-0.7	-0.2
Signif. if > +-1	0.8	-0.5	-0.1
Signif. if > +-1	0.5	-0.3	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(b)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
15.3	7.0	8.3	11.2	29.7	36.0	64.0	Total
18.5	18.5	0.0	18.5	6.4	28.0	-21.3	A
1.9	10.0	-8.1	6.0	5.1	1.8	-5.6	C
0.0	0.8	-0.8	0.4	22.9	-23.1	-25.8	AC
6.0	4.2	1.9	5.1	7.3	-23.3	-8.1	D
0.0	0.0	0.0	0.0	-5.5	17.7	-24.9	AD
20.4	20.4	0.0	20.4	-5.1	-12.9	41.0	CD
3.6	1.2	2.4	2.4	-18.0	-12.9	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-5.3	-6.4	-1.4	-2.0	-6.2	10.3
Error Variance	14.5					
Variance of Mean	7.2					
Stand. Deviation	2.7					
(Signif. if > +-1)						
@90%CB,	-1.3	-1.6	-0.3	-0.5	-1.6	2.6
@95%CB,	-1.0	-1.2	-0.3	-0.4	-1.1	1.9
@99%CB,	-0.6	-0.7	-0.2	-0.2	-0.7	1.1

"YATES" table for stove and rate for BENZO(b)FLUORANTHE

MEAN VALUE	1	2	
0.9	12.1	21.6	Total
11.2	9.5	10.9	B
4.4	10.2	-2.6	D
5.1	0.7	-9.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	5.5	-1.3	-4.8
Error Variance	14.5		
Variance of Mean	10.9		
Stand. Deviation	3.8		
Signif. if > +-1	1.0	-0.2	-0.8
Signif. if > +-1	0.7	-0.2	-0.6
Signif. if > +-1	0.4	-0.1	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(k)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.1	2.7	-1.6	1.9	6.9	8.2	17.4	Total
5.1	5.1	0.0	5.1	1.2	9.2	-4.6	A
0.7	1.1	-0.4	0.9	1.7	2.7	0.0	C
0.4	0.3	0.0	0.3	7.5	-7.2	-7.5	AC
2.0	1.5	0.5	1.7	3.2	-5.7	1.1	D
0.0	0.0	0.0	0.0	-0.5	5.8	-9.9	AD
6.5	6.5	0.0	6.5	-1.7	-3.8	11.5	CD
1.5	0.5	1.0	1.0	-5.5	-3.8	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1.1	-1.9	0.0	0.3	-2.5	2.9
Error Variance	0.4					
Variance of Mean	0.2					
Stand. Deviation	0.5					
(Signif. if > +-1)						
@90%CB,	-1.7	-2.8	0.0	0.4	-3.7	4.3
@95%CB,	-1.3	-2.1	0.0	0.3	-2.7	3.2
@99%CB,	-0.8	-1.2	0.0	0.2	-1.6	1.9

"YATES" table for stove and rate for BENZO(k)FLUORANTHE

MEAN VALUE	1	2	
0.3	2.2	5.2	Total
1.9	3.0	2.0	B
1.3	1.5	0.8	D
1.7	0.4	-1.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.0	0.4	-0.6
Error Variance	0.4		
Variance of Mean	0.3		
Stand. Deviation	0.6		
Signif. if > +-1	1.1	0.4	-0.6
Signif. if > +-1	0.8	0.3	-0.4
Signif. if > +-1	0.5	0.2	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.7	7.7	-6.0	4.7	18.0	21.7	44.9	Total
13.3	13.3	0.0	13.3	3.7	23.2	-10.9	A
1.8	3.7	-2.0	2.8	3.6	6.8	1.7	C
0.8	1.1	-0.2	0.9	19.6	-17.6	-20.8	AC
4.2	3.0	1.2	3.6	8.6	-14.3	1.5	D
0.0	0.0	0.0	0.0	-1.8	15.9	-24.4	AD
16.8	16.8	0.0	16.8	-3.6	-10.4	30.2	CD
4.6	0.9	3.7	2.8	-14.0	-10.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-2.7	-5.2	0.4	0.4	-6.1	7.6
Error Variance	5.5					
Variance of Mean	2.7					
Stand. Deviation	1.7					
(Signif. if > +-1)						
@90%CB,	-1.1	-2.1	0.2	0.1	-2.5	3.1
@95%CB,	-0.8	-1.6	0.1	0.1	-1.8	2.3
@99%CB,	-0.5	-0.9	0.1	0.1	-1.1	1.4

"YATES" table for stove and rate for BENZO(a)PYRENE

MEAN VALUE	1	2	
0.8	5.5	12.0	Total
4.7	6.4	4.7	B
2.8	3.9	0.9	D
3.6	0.8	-3.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	2.3	0.4	-1.5
Error Variance	5.5		
Variance of Mean	4.1		
Stand. Deviation	2.3		
Signif. if > +-1	0.7	0.1	-0.4
Signif. if > +-1	0.5	0.1	-0.3
Signif. if > +-1	0.3	0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(g,h,i)PERYLE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	4.2	-4.2	2.1	2.1	7.3	42.4	Total
0.0	0.0	0.0	0.0	5.3	35.1	-17.7	A
1.1	8.8	-7.7	5.0	14.1	-6.7	10.0	C
0.0	0.6	-0.6	0.3	21.0	-11.0	-25.0	AC
5.1	3.3	1.8	4.2	-2.1	3.2	27.8	D
9.9	9.9	0.0	9.9	-4.7	6.8	-4.2	AD
18.8	18.8	0.0	18.8	5.7	-2.6	3.7	CD
2.7	1.5	1.2	2.1	-16.7	-22.4	-19.9	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-4.4	-6.3	2.5	6.9	-1.1	0.9
Error Variance	8.1					
Variance of Mean	4.0					
Stand. Deviation	2.0					
(Signif. if > +-1)						
@90%CB,	-1.5	-2.1	0.8	2.3	-0.4	0.3
@95%CB,	-1.1	-1.5	0.6	1.7	-0.3	0.2
@99%CB,	-0.7	-0.9	0.4	1.0	-0.2	0.1

"YATES" table for stove and rate for BENZO(g,h,i)PERYLE

MEAN VALUE	1	2	
1.7	3.8	10.1	Total
2.1	6.3	2.5	B
2.1	0.4	2.5	D
4.2	2.1	1.7	BD

	B Stove	D Rate	BD
Main Effects	1.2	1.3	0.9
Error Variance	8.1		
Variance of Mean	6.1		
Stand. Deviation	2.8		
Signif. if > +-1	0.3	0.3	0.2
Signif. if > +-1	0.2	0.2	0.1
Signif. if > +-1	0.1	0.1	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for DIBENZO(a,h)ANTHRA

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	1.0	-1.0	0.5	4.4	4.7	11.2	Total
3.9	3.9	0.0	3.9	0.3	6.5	-1.8	A
0.2	0.1	0.1	0.2	0.8	3.3	0.7	C
0.0	0.3	-0.3	0.1	5.6	-5.1	-6.8	AC
1.2	0.5	0.7	0.8	3.3	-4.1	1.7	D
0.0	0.0	0.0	0.0	-0.0	4.8	-8.4	AD
4.9	4.9	0.0	4.9	-0.8	-3.4	8.8	CD
1.3	0.1	1.2	0.7	-4.2	-3.4	-0.0	ACD

"YATES" table for stove and rate for DIBENZO(a,h)ANTHRA

MEAN VALUE	1	2	
0.8	1.3	2.3	Total
0.5	1.0	0.5	B
0.1	-0.3	-0.4	D
0.6	0.7	1.0	BD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.4	-1.7	0.2	0.4	-2.1	2.2
Error Variance	0.3					
Variance of Mean	0.1					
Stand. Deviation	0.4					
(Signif. if > +-1)						
@90%CB,	-0.8	-3.0	0.3	0.8	-3.7	3.9
@95%CB,	-0.6	-2.2	0.2	0.6	-2.7	2.8
@99%CB,	-0.3	-1.3	0.1	0.3	-1.6	1.7

	B	D	BD
	Stove	Rate	
Main Effects	0.2	-0.2	0.5
Error Variance	0.3		
Variance of Mean	0.2		
Stand. Deviation	0.5		
Signif. if > +-1	0.3	-0.2	0.6
Signif. if > +-1	0.2	-0.2	0.5
Signif. if > +-1	0.1	-0.1	0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL GC/MS PAH

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
493.7	760.6	-266.9	627.1	977.6	2002.7	5530.9	Total
350.5	350.5	0.0	350.5	1025.1	3528.2	-3396.7	A
440.1	1149.9	-709.7	795.0	1133.5	-841.5	1308.8	C
143.9	316.2	-172.3	230.1	2394.8	-2555.2	-576.6	AC
1311.1	955.9	355.2	1133.5	-276.6	47.5	1525.6	D
0.0	0.0	0.0	0.0	-564.9	1261.3	-1713.8	AD
1908.3	1908.3	0.0	1908.3	-1133.5	-288.3	1213.9	CD
682.1	290.9	391.2	486.5	-1421.8	-288.3	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-849.2	-144.2	327.2	381.4	-428.4	303.5
Error Variance	88385.1					
Variance of Mean	44192.6					
Stand. Deviation	210.2					
(Signif. if > +-1)						
@90%CB,	-2.7	-0.5	1.1	1.2	-1.4	1.0
@95%CB,	-2.0	-0.3	0.8	0.9	-1.0	0.7
@99%CB,	-1.2	-0.2	0.5	0.5	-0.6	0.4

"YATES" table for stove and rate for
TOTAL GC/MS PAH

MEAN VALUE	1	2	
291.3	918.4	2656.4	Total
627.1	1738.1	864.7	B
604.6	335.8	819.7	D
1133.5	528.9	193.0	BD

	B Stove	D Rate	BD
Main Effects	432.4	409.9	96.5
Error Variance	88385.1		
Variance of Mean	66288.8		
Stand. Deviation	297.3		
Signif. if > +-1	1.0	0.9	0.2
Signif. if > +-1	0.7	0.7	0.2
Signif. if > +-1	0.4	0.4	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for NAPHTHALENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
67.0	196.2	-129.2	131.6	177.3	422.6	964.2	Total
45.7	45.7	0.0	45.7	245.3	541.6	-575.1	A
114.1	262.5	-148.4	188.3	156.2	-217.3	297.4	C
43.0	70.9	-27.9	57.0	385.5	-357.8	-90.9	AC
185.0	127.3	57.7	156.2	-85.9	68.0	119.0	D
0.0	0.0	0.0	0.0	-131.4	229.3	-140.4	AD
293.5	293.5	0.0	293.5	-156.2	-45.4	161.3	CD
114.8	69.1	45.8	91.9	-201.6	-45.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-143.8	-22.7	74.3	29.8	-35.1	40.3
Error Variance	4492.1					
Variance of Mean	2246.0					
Stand. Deviation	47.4					
(Signif. if > +-1)						
@90%CB,	-2.1	-0.3	1.1	0.4	-0.5	0.6
@95%CB,	-1.5	-0.2	0.8	0.3	-0.4	0.4
@99%CB,	-0.9	-0.1	0.5	0.2	-0.2	0.3

"YATES" table for stove and rate for NAPHTHALENE

MEAN VALUE	1	2	
98.2	229.8	547.2	Total
131.6	317.4	28.3	B
161.3	33.4	87.6	D
156.2	-5.1	-38.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.2	43.8	-19.3
Error Variance	4492.1		
Variance of Mean	3369.1		
Stand. Deviation	67.0		
Signif. if > +-1	0.1	0.4	-0.2
Signif. if > +-1	0.1	0.3	-0.1
Signif. if > +-1	0.1	0.2	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
16.8	16.2	0.6	16.5	36.5	57.8	98.7	Total
20.0	20.0	0.0	20.0	21.3	40.9	-24.9	A
5.4	17.5	-12.0	11.4	10.8	1.8	4.0	C
7.0	12.6	-5.5	9.8	30.1	-26.7	-10.1	AC
13.1	8.6	4.5	10.8	3.4	-15.2	-16.8	D
0.0	0.0	0.0	0.0	-1.6	19.3	-28.5	AD
23.0	23.0	0.0	23.0	-10.8	-5.0	34.5	CD
8.2	6.0	2.2	7.1	-15.9	-5.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-6.2	-2.5	1.0	-4.2	-7.1	8.6
Error Variance	20.1					
Variance of Mean	10.0					
Stand. Deviation	3.2					
(Signif. if > +-1)						
@90%CB,	-1.3	-0.5	0.2	-0.9	-1.5	1.8
@95%CB,	-1.0	-0.4	0.2	-0.7	-1.1	1.4
@99%CB,	-0.6	-0.2	0.1	-0.4	-0.7	0.8

"YATES" table for stove and rate for FLUORENE

MEAN VALUE	1	2	
7.1	23.7	38.8	Total
16.5	15.1	16.0	B
4.3	9.4	-8.5	D
10.8	6.5	-2.9	BD

	B Stove	D Rate	BD
Main Effects	8.0	-4.3	-1.4
Error Variance	20.1		
Variance of Mean	15.0		
Stand. Deviation	4.5		
Signif. if > +-1	1.2	-0.6	-0.2
Signif. if > +-1	0.9	-0.5	-0.2
Signif. if > +-1	0.5	-0.3	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PHENANTHRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
34.3	75.3	-41.0	54.8	148.5	207.0	367.4	Total
93.7	93.7	0.0	93.7	58.5	160.4	-105.1	A
17.8	63.9	-46.1	40.9	29.3	15.7	11.8	C
15.0	20.3	-5.3	17.6	131.1	-120.8	-124.5	AC
35.9	22.6	13.3	29.3	39.0	-90.0	-46.6	D
0.0	0.0	0.0	0.0	-23.3	101.9	-136.5	AD
111.3	111.3	0.0	111.3	-29.3	-62.2	191.9	CD
25.7	13.9	11.8	19.8	-91.5	-62.2	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-26.3	-31.1	3.0	-11.6	-34.1	48.0
Error Variance	415.2					
Variance of Mean	207.6					
Stand. Deviation	14.4					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.5	0.1	-0.5	-1.6	2.3
@95%CB,	-0.9	-1.1	0.1	-0.4	-1.2	1.7
@99%CB,	-0.5	-0.6	0.1	-0.2	-0.7	1.0

"YATES" table for stove and rate for PHENANTHRENE

MEAN VALUE	1	2	
24.3	79.1	145.3	Total
54.8	66.2	22.7	B
37.0	30.4	-12.8	D
29.3	-7.7	-38.1	BD

	B Stove	D Rate	BD
Main Effects	11.4	-6.4	-19.1
Error Variance	415.2		
Variance of Mean	311.4		
Stand. Deviation	20.4		
Signif. if > +-1	0.4	-0.2	-0.6
Signif. if > +-1	0.3	-0.2	-0.5
Signif. if > +-1	0.2	-0.1	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
6.6	11.5	-5.0	9.0	21.2	29.4	57.8	Total
12.2	12.2	0.0	12.2	8.2	28.4	-23.8	A
3.3	8.4	-5.1	5.8	8.5	-0.3	-1.5	C
1.9	2.8	-0.9	2.4	20.0	-23.5	-13.2	AC
5.0	11.9	-7.0	8.5	3.1	-13.0	-1.0	D
0.0	0.0	0.0	0.0	-3.5	11.5	-23.2	AD
17.5	17.5	0.0	17.5	-8.5	-6.6	24.6	CD
3.0	1.9	1.1	2.5	-15.1	-6.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-6.0	-3.3	-0.4	-0.3	-5.8	6.1
Error Variance	10.2					
Variance of Mean	5.1					
Stand. Deviation	2.3					
(Signif. if > +-1)						
@90%CB,	-1.8	-1.0	-0.1	-0.1	-1.7	1.8
@95%CB,	-1.3	-0.7	-0.1	-0.1	-1.3	1.4
@99%CB,	-0.8	-0.4	-0.1	-0.0	-0.8	0.8

"YATES" table for stove and rate for ANTHRACENE

MEAN VALUE	1	2	
3.3	12.4	25.9	Total
9.0	13.5	9.1	B
5.0	5.7	1.1	D
8.5	3.4	-2.3	BD

	B Stove	D Rate	BD
Main Effects	4.6	0.6	-1.2
Error Variance	10.2		
Variance of Mean	7.6		
Stand. Deviation	3.2		
Signif. if > +-1	1.0	0.1	-0.2
Signif. if > +-1	0.7	0.1	-0.2
Signif. if > +-1	0.4	0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORANTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
6.9	20.9	-14.0	13.9	38.7	52.1	97.6	Total
24.7	24.7	0.0	24.7	13.4	45.5	-27.9	A
5.1	14.3	-9.2	9.7	8.0	4.8	-3.3	C
3.8	3.7	0.1	3.7	37.5	-32.8	-33.5	AC
8.9	7.2	1.7	8.0	10.8	-25.2	-6.5	D
0.0	0.0	0.0	0.0	-6.0	29.5	-37.6	AD
31.1	31.1	0.0	31.1	-8.0	-16.8	54.7	CD
8.1	4.7	3.4	6.4	-24.8	-16.8	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-7.0	-8.4	1.1	-1.6	-9.4	13.7
Error Variance	29.4					
Variance of Mean	14.7					
Stand. Deviation	3.8					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.5	0.2	-0.3	-1.7	2.4
@95%CB,	-0.9	-1.1	0.1	-0.2	-1.2	1.8
@99%CB,	-0.5	-0.6	0.1	-0.1	-0.7	1.1

"YATES" table for stove and rate for FLUORANTHENE

MEAN VALUE	1	2	
5.7	19.6	36.3	Total
13.9	16.8	7.5	B
8.7	8.3	-2.8	D
8.0	-0.7	-9.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	3.8	-1.4	-4.5
Error Variance	29.4		
Variance of Mean	22.0		
Stand. Deviation	5.4		
Signif. if > +-1	0.5	-0.2	-0.6
Signif. if > +-1	0.3	-0.1	-0.4
Signif. if > +-1	0.2	-0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.5	20.5	-8.9	16.0	49.9	65.2	117.6	Total
33.9	33.9	0.0	33.9	15.3	52.5	-26.3	A
6.9	15.3	-8.4	11.1	6.3	11.1	5.2	C
3.8	4.6	-0.9	4.2	46.1	-37.4	-49.5	AC
7.1	5.5	1.6	6.3	17.9	-34.6	-12.7	D
0.0	0.0	0.0	0.0	-6.8	39.8	-48.5	AD
38.6	38.6	0.0	38.6	-6.3	-24.8	74.5	CD
10.7	4.4	6.3	7.5	-31.1	-24.8	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-6.6	-12.4	1.3	-3.2	-12.1	18.6
Error Variance	19.4					
Variance of Mean	9.7					
Stand. Deviation	3.1					
(Signif. if > +-1)						
@90%CB,	-1.4	-2.7	0.3	-0.7	-2.6	4.0
@95%CB,	-1.0	-2.0	0.2	-0.5	-1.9	3.0
@99%CB,	-0.6	-1.2	0.1	-0.3	-1.2	1.8

"YATES" table for stove and rate for PYRENE

MEAN VALUE	1	2	
5.4	21.4	37.0	Total
16.0	15.6	7.6	B
9.3	10.6	-5.8	D
6.3	-3.0	-13.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	3.8	-2.9	-6.8
Error Variance	19.4		
Variance of Mean	14.6		
Stand. Deviation	4.4		
Signif. if > +-1	0.6	-0.4	-1.0
Signif. if > +-1	0.4	-0.3	-0.8
Signif. if > +-1	0.3	-0.2	-0.5

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
BENZO(b)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
13.0	4.3	8.7	8.6	18.4	22.3	31.9	Total
9.8	9.8	0.0	9.8	3.9	9.6	-9.7	A
1.1	6.0	-4.9	3.6	1.6	-2.1	-8.1	C
0.0	0.6	-0.6	0.3	8.0	-7.6	-8.8	AC
1.9	1.3	0.6	1.6	1.1	-14.5	-12.7	D
0.0	0.0	0.0	0.0	-3.2	6.4	-5.5	AD
7.0	7.0	0.0	7.0	-1.6	-4.4	20.9	CD
1.4	0.6	0.8	1.0	-6.0	-4.4	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-2.4	-2.2	-2.0	-3.2	-1.4	5.2
Error Variance	10.0					
Variance of Mean	5.0					
Stand. Deviation	2.2					
(Signif. if > +-1)						
@90%CB,	-0.7	-0.7	-0.6	-1.0	-0.4	1.6
@95%CB,	-0.5	-0.5	-0.5	-0.7	-0.3	1.2
@99%CB,	-0.3	-0.3	-0.3	-0.4	-0.2	0.7

"YATES" table for stove and rate for
BENZO(b)FLUORANTHE

MEAN VALUE	1	2	
6.6	15.2	23.0	Total
8.6	7.8	-2.5	B
6.2	2.1	-7.4	D
1.6	-4.6	-6.[illegible]	BD

	B	D	BD
	Stove	Rate	
Main Effects	-1.2	-3.7	-3.3
Error Variance	10.0		
Variance of Mean	7.5		
Stand. Deviation	3.2		
Signif. if > +-1	-0.3	-0.8	-0.7
Signif. if > +-1	-0.2	-0.6	-0.5
Signif. if > +-1	-0.1	-0.3	-0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(k)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.9	1.6	-0.7	1.3	3.5	4.3	7.5	Total
2.3	2.3	0.0	2.3	0.8	3.2	-1.6	A
0.4	0.7	-0.3	0.5	0.5	0.7	-0.7	C
0.3	0.3	0.0	0.3	2.6	-2.4	-2.5	AC
0.6	0.5	0.2	0.5	1.0	-2.7	-1.1	D
0.0	0.0	0.0	0.0	-0.3	2.1	-3.1	AD
2.2	2.2	0.0	2.2	-0.5	-1.3	4.8	CD
0.6	0.2	0.3	0.4	-1.8	-1.3	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.4	-0.6	-0.2	-0.3	-0.8	1.2
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-1.4	-2.2	-0.6	-1.0	-2.7	4.2
@95%CB,	-1.1	-1.6	-0.4	-0.7	-2.0	3.1
@99%CB,	-0.6	-1.0	-0.3	-0.4	-1.2	1.9

"YATES" table for stove and rate for BENZO(k)FLUORANTHE

MEAN VALUE	1	2	
6.6	7.8	14.6	Total
1.3	6.7	-10.9	B
6.2	-5.3	-1.1	D
0.5	-5.6	-0.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	-5.5	-0.6	-0.2
Error Variance	0.1		
Variance of Mean	0.1		
Stand. Deviation	0.3		
Signif. if > +-1	-13.5	-1.4	-0.4
Signif. if > +-1	-9.9	-1.0	-0.3
Signif. if > +-1	-5.9	-0.6	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.5	4.7	-3.2	3.1	8.7	11.1	19.1	Total
5.6	5.6	0.0	5.6	2.4	8.0	-4.2	A
1.1	2.2	-1.2	1.7	1.1	1.6	-0.6	C
0.6	0.8	-0.2	0.7	6.9	-5.8	-7.0	AC
1.3	1.0	0.4	1.1	2.6	-6.4	-3.1	D
0.0	0.0	0.0	0.0	-0.9	5.7	-7.4	AD
5.8	5.8	0.0	5.8	-1.1	-3.5	12.1	CD
1.8	0.4	1.3	1.1	-4.6	-3.5	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1.0	-1.8	-0.2	-0.8	-1.8	3.0
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	-0.8	-1.4	-0.1	-0.6	-1.5	2.5
@95%CB,	-0.6	-1.0	-0.1	-0.5	-1.1	1.8
@99%CB,	-0.4	-0.6	-0.1	-0.3	-0.7	1.1

"YATES" table for stove and rate for BENZO(a)PYRENE

MEAN VALUE	1	2	
6.6	9.7	17.0	Total
3.1	7.3	-8.5	B
6.2	-3.5	-2.4	D
1.1	-5.0	-1.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-4.3	-1.2	-0.8
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	-2.4	-0.7	-0.4
Signif. if > +-1	-1.8	-0.5	-0.3
Signif. if > +-1	-1.1	-0.3	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(g,h,i)PERYLE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	2.6	-2.6	1.3	1.3	4.5	15.9	Total
0.0	0.0	0.0	0.0	3.2	11.4	-8.1	A
0.7	5.3	-4.6	3.0	4.1	-4.0	5.2	C
0.0	0.5	-0.5	0.2	7.3	-4.1	-8.5	AC
1.6	1.1	0.5	1.3	-1.3	1.9	7.0	D
2.8	2.8	0.0	2.8	-2.7	3.2	-0.1	AD
6.5	6.5	0.0	6.5	1.4	-1.5	1.3	CD
1.0	0.7	0.3	0.9	-5.6	-7.0	-5.5	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-2.0	-2.1	1.3	1.7	-0.0	0.3
Error Variance	2.8					
Variance of Mean	1.4					
Stand. Deviation	1.2					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.2	0.7	1.0	-0.0	0.2
@95%CB,	-0.9	-0.9	0.5	0.7	-0.0	0.1
@99%CB,	-0.5	-0.5	0.3	0.4	-0.0	0.1

"YATES" table for stove and rate for BENZO(g,h,i)PERYLE

MEAN VALUE	1	2	
6.6	7.9	15.4	Total
1.3	7.5	-10.1	B
6.2	-5.3	-0.4	D
1.3	-4.8	0.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-5.1	-0.2	0.2
Error Variance	2.8		
Variance of Mean	2.1		
Stand. Deviation	1.7		
Signif. if > +-1	-2.0	-0.1	0.1
Signif. if > +-1	-1.5	-0.1	0.1
Signif. if > +-1	-0.9	-0.0	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for DIBENZO(a,h)ANTHRA

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.6	-0.6	0.3	1.8	2.0	4.2	Total
1.5	1.5	0.0	1.5	0.2	2.2	-0.5	A
0.1	0.1	0.1	0.1	0.3	1.1	0.1	C
0.0	0.2	-0.2	0.1	2.0	-1.7	-2.3	AC
0.4	0.2	0.2	0.3	1.2	-1.6	0.2	D
0.0	0.0	0.0	0.0	-0.0	1.7	-2.8	AD
1.7	1.7	0.0	1.7	-0.3	-1.2	3.3	CD
0.5	0.0	0.4	0.3	-1.4	-1.2	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.1	-0.6	0.0	0.1	-0.7	0.8
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-0.5	-2.1	0.1	0.2	-2.6	2.9
@95%CB,	-0.4	-1.5	0.1	0.1	-1.9	2.2
@99%CB,	-0.2	-0.9	0.0	0.1	-1.1	1.3

"YATES" table for stove and rate for DIBENZO(a,h)ANTHRA

MEAN VALUE	1	2	
6.6	6.9	13.3	Total
0.3	6.4	-12.2	B
6.2	-6.3	-0.5	D
0.3	-5.9	0.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	-6.1	-0.2	0.2
Error Variance	0.1		
Variance of Mean	0.1		
Stand. Deviation	0.3		
Signif. if > +-1	-15.6	-0.6	0.5
Signif. if > +-1	-11.4	-0.4	0.3
Signif. if > +-1	-6.8	-0.3	0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL GC/MS PAH

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
418.4	466.6	-48.2	442.5	678.9	1332.5	2545.7	Total
236.4	236.4	0.0	236.4	653.7	1213.1	-1316.7	A
265.1	688.5	-423.4	476.8	358.4	-506.1	471.3	C
106.6	247.1	-140.4	176.8	854.8	-810.6	-187.8	AC
412.3	304.4	107.9	358.4	-206.1	-25.2	-119.4	D
0.0	0.0	0.0	0.0	-300.0	496.4	-304.5	AD
653.5	653.5	0.0	653.5	-358.4	-93.9	521.6	CD
263.4	139.2	124.2	201.3	-452.2	-93.9	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-329.2	-46.9	117.8	-29.8	-76.1	130.4
Error Variance	22837.4					
Variance of Mean	11418.7					
Stand. Deviation	106.9					
(Signif. if > +-1)						
@90%CB,	-2.1	-0.3	0.7	-0.2	-0.5	0.8
@95%CB,	-1.5	-0.2	0.5	-0.1	-0.4	0.6
@99%CB,	-0.9	-0.1	0.3	-0.1	-0.2	0.4

"YATES" table for stove and rate for
TOTAL GC/MS PAH

MEAN VALUE	1	2	
6.6	449.1	813.6	Total
442.5	364.5	788.1	B
6.2	435.9	-84.5	D
358.4	352.2	-83.7	BD

	B Stove	D Rate	BD
Main Effects	394.0	-42.3	-41.9
Error Variance	22837.4		
Variance of Mean	17128.1		
Stand. Deviation	151.1		
Signif. if > +-1	1.8	-0.2	-0.2
Signif. if > +-1	1.3	-0.1	-0.1
Signif. if > +-1	0.8	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Al ALUMINUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
790.8	44.8	745.9	417.8	1016.1	1475.2	3986.8	Total
598.3	598.3	0.0	598.3	459.1	2511.6	829.2	A
35.9	242.8	-206.8	139.3	2177.8	360.9	-2401.0	C
59.7	579.9	-520.1	319.8	333.8	468.3	0.0	AC
552.6	1391.0	-838.4	971.8	180.4	-556.9	1036.4	D
1206.0	1206.0	0.0	1206.0	180.4	-1844.1	107.4	AD
49.8	49.8	0.0	49.8	234.2	0.0	-1287.1	CD
460.0	107.9	352.1	284.0	234.2	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	207.3	0.0	-600.2	259.1	26.9	-321.8
Error Variance	169662.1					
Variance of Mean	84831.1					
Stand. Deviation	291.3					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-1.4	0.6	0.1	-0.7
@95%CB,	0.4	0.0	-1.0	0.4	0.0	-0.5
@99%CB,	0.2	0.0	-0.6	0.3	0.0	-0.3

"YATES" table for stove and rate for
Al ALUMINUM

MEAN VALUE	1	2	
0.0	417.8	1474.6	Total
417.8	1056.7	1304.7	B
84.9	417.8	638.9	D
971.8	886.9	469.1	BD

	B Stove	D Rate	BD
Main Effects	652.4	319.5	234.6
Error Variance	169662.1		
Variance of Mean	127246.6		
Stand. Deviation	411.9		
Signif. if > +-1	1.1	0.5	0.4
Signif. if > +-1	0.8	0.4	0.3
Signif. if > +-1	0.5	0.2	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Cd CADNIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	4.1	-4.1	2.0	3.9	7.4	7.4	Total
1.9	1.9	0.0	1.9	3.5	0.0	-0.3	A
0.0	3.7	-3.7	1.8	0.0	-0.3	-0.4	C
0.0	3.3	-3.3	1.7	0.0	0.0	0.0	AC
0.0	0.0	0.0	0.0	-0.2	-0.4	-7.4	D
0.0	0.0	0.0	0.0	-0.2	0.0	0.3	AD
0.0	0.0	0.0	0.0	0.0	0.0	0.4	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.1	0.0	-0.1	-1.9	0.1	0.1
Error Variance	4.1					
Variance of Mean	2.1					
Stand. Deviation	1.4					
(Signif. if > +-1)						
@90%CB,	-0.0	0.0	-0.0	-0.9	0.0	0.0
@95%CB,	-0.0	0.0	-0.0	-0.6	0.0	0.0
@99%CB,	-0.0	0.0	-0.0	-0.4	0.0	0.0

"YATES" table for stove and rate for
Cd CADNIUM

MEAN VALUE	1	2	
5.8	7.9	7.9	Total
2.0	0.0	-3.8	B
0.0	-3.8	-7.9	D
0.0	0.0	3.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	-1.9	-3.9	1.9
Error Variance	4.1		
Variance of Mean	3.1		
Stand. Deviation	2.0		
Signif. if > +-1	-0.6	-1.3	0.6
Signif. if > +-1	-0.5	-1.0	0.5
Signif. if > +-1	-0.3	-0.6	0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
K POTASSIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
2019.2	440.3	1578.9	1229.8	4502.9	8380.7	17949.6	Total
3273.1	3273.1	0.0	3273.1	3877.9	9568.9	9589.7	A
315.4	1519.1	-1203.7	917.3	5366.1	4086.7	-1788.3	C
2385.4	3535.8	-1150.4	2960.6	4202.8	5503.0	0.0	AC
1666.1	948.4	717.7	1307.3	2043.4	-625.0	1188.2	D
4058.8	4058.8	0.0	4058.8	2043.4	-1163.3	1416.3	AD
725.6	725.6	0.0	725.6	2751.5	0.0	-538.3	CD
4153.3	2801.0	1352.4	3477.2	2751.5	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	2397.4	0.0	-447.1	297.0	354.1	-134.6
Error Variance	760944.3					
Variance of Mean	380472.1					
Stand. Deviation	616.8					
(Signif. if > +-1)						
@90%CB,	2.6	0.0	-0.5	0.3	0.4	-0.1
@95%CB,	1.9	0.0	-0.4	0.2	0.3	-0.1
@99%CB,	1.2	0.0	-0.2	0.1	0.2	-0.1

"YATES" table for stove and rate for
K POTASSIUM

MEAN VALUE	1	2	
341.9	1571.7	3449.8	Total
1229.8	1878.1	1624.3	B
570.8	887.8	306.4	D
1307.3	736.5	-151.4	BD

	B Stove	D Rate	BD
Main Effects	812.2	153.2	-75.7
Error Variance	760944.3		
Variance of Mean	570708.2		
Stand. Deviation	872.3		
Signif. if > +-1	0.6	0.1	-0.1
Signif. if > +-1	0.5	0.1	-0.0
Signif. if > +-1	0.3	0.1	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ni NICKEL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.0	1.8	14.2	Total
0.0	0.0	0.0	0.0	1.8	12.4	-3.7	A
0.0	3.7	-3.7	1.8	5.3	-1.8	3.7	C
0.0	0.0	0.0	0.0	7.1	-1.8	-14.2	AC
0.0	0.0	0.0	0.0	0.0	1.8	10.6	D
5.3	5.3	0.0	5.3	-1.8	1.8	0.0	AD
7.1	7.1	0.0	7.1	5.3	-1.8	-0.0	CD
0.0	0.0	0.0	0.0	-7.1	-12.4	-10.6	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.9	-3.6	0.9	2.6	0.0	-0.0
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	-0.8	-2.9	0.8	2.2	0.0	-0.0
@95%CB,	-0.6	-2.1	0.6	1.6	0.0	-0.0
@99%CB,	-0.3	-1.3	0.3	1.0	0.0	-0.0

"YATES" table for stove and rate for
Ni NICKEL

MEAN VALUE	1	2	
0.0	0.0	0.0	Total
0.0	0.0	0.0	B
0.0	0.0	0.0	D
0.0	0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	0.0	0.0
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PO4PHOSPHOROUS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
57.2	16.3	40.9	36.8	92.6	130.1	249.6	Total
55.8	55.8	0.0	55.8	37.5	119.6	117.2	A
0.0	18.4	-18.4	9.2	80.1	38.2	-95.7	C
19.9	36.7	-16.8	28.3	39.5	79.0	-0.0	AC
24.7	15.8	8.9	20.3	19.1	-55.1	-10.5	D
59.8	59.8	0.0	59.8	19.1	-40.6	40.9	AD
0.0	0.0	0.0	0.0	39.5	0.0	14.6	CD
53.3	25.7	27.6	39.5	39.5	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	29.3	-0.0	-23.9	-2.6	10.2	3.6
Error Variance	313.4					
Variance of Mean	156.7					
Stand. Deviation	12.5					
(Signif. if > +-1)						
@90%CB,	1.6	-0.0	-1.3	-0.1	0.6	0.2
@95%CB,	1.2	-0.0	-0.9	-0.1	0.4	0.1
@99%CB,	0.7	-0.0	-0.6	-0.1	0.2	0.1

"YATES" table for stove and rate for PO4PHOSPHOROUS

MEAN VALUE	1	2	
43.8	80.6	119.7	Total
36.8	39.1	-5.7	B
18.9	-7.1	-41.4	D
20.3	1.4	8.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-2.8	-20.7	4.2
Error Variance	313.4		
Variance of Mean	235.1		
Stand. Deviation	17.7		
Signif. if > +-1	-0.1	-0.8	0.2
Signif. if > +-1	-0.1	-0.6	0.1
Signif. if > +-1	-0.0	-0.3	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Pb LEAD

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	5.0	10.0	21.8	Total
5.0	5.0	0.0	5.0	5.0	11.8	21.8	A
0.0	0.0	0.0	0.0	5.9	10.0	0.0	C
3.3	6.7	-3.3	5.0	5.9	11.8	0.0	AC
0.0	0.0	0.0	0.0	5.0	0.0	1.8	D
5.9	5.9	0.0	5.9	5.0	0.0	1.8	AD
0.0	0.0	0.0	0.0	5.9	0.0	0.0	CD
6.7	5.1	1.5	5.9	5.9	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	5.4	0.0	0.0	0.5	0.5	0.0
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	4.5	0.0	0.0	0.4	0.4	0.0
@95%CB,	3.3	0.0	0.0	0.3	0.3	0.0
@99%CB,	2.0	0.0	0.0	0.2	0.2	0.0

"YATES" table for stove and rate for Pb LEAD

MEAN VALUE	1	2	
14.6	14.6	19.3	Total
0.0	4.7	-19.3	B
4.7	-14.6	-9.9	D
0.0	-4.7	9.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	-9.7	-4.9	4.9
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	-5.6	-2.9	2.9
Signif. if > +-1	-4.1	-2.1	2.1
Signif. if > +-1	-2.5	-1.3	1.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Al ALUMINUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8.8	0.5	8.2	4.6	12.3	18.4	65.3	Total
7.7	7.7	0.0	7.7	6.0	47.0	14.6	A
0.4	2.6	-2.2	1.5	40.7	6.1	-40.7	C
0.9	8.1	-7.2	4.5	6.3	8.5	0.0	AC
10.5	25.9	-15.5	18.2	3.0	-6.3	28.6	D
22.5	22.5	0.0	22.5	3.0	-34.4	2.5	AD
1.0	1.0	0.0	1.0	4.3	-0.0	-28.1	CD
8.7	1.9	6.8	5.3	4.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	3.6	0.0	-10.2	7.2	0.6	-7.0
Error Variance	41.0					
Variance of Mean	20.5					
Stand. Deviation	4.5					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-1.5	1.1	0.1	-1.1
@95%CB,	0.4	0.0	-1.1	0.8	0.1	-0.8
@99%CB,	0.2	0.0	-0.7	0.5	0.0	-0.5

"YATES" table for stove and rate for
Al ALUMINUM

MEAN VALUE	1	2	
0.0	4.6	24.0	Total
4.6	19.4	21.7	B
1.1	4.6	14.7	D
18.2	17.1	12.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	10.9	7.4	6.2
Error Variance	41.0		
Variance of Mean	30.7		
Stand. Deviation	6.4		
Signif. if > +-1	1.2	0.8	0.7
Signif. if > +-1	0.8	0.6	0.5
Signif. if > +-1	0.5	0.3	0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
K POTASSIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
22.4	5.3	17.1	13.8	60.9	114.0	290.0	Total
47.1	47.1	0.0	47.1	53.1	176.0	163.8	A
3.7	16.2	-12.5	9.9	98.0	66.5	-27.8	C
36.7	49.6	-13.0	43.2	78.0	97.3	-0.0	AC
31.6	17.7	13.9	24.7	33.2	-7.8	62.0	D
73.3	73.3	0.0	73.3	33.2	-19.9	30.8	AD
14.7	14.7	0.0	14.7	48.7	0.0	-12.1	CD
78.4	48.3	30.1	63.3	48.7	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	40.9	-0.0	-6.9	15.5	7.7	-3.0
Error Variance	171.6					
Variance of Mean	85.8					
Stand. Deviation	9.3					
(Signif. if > +-1)						
@90%CB,	3.0	-0.0	-0.5	1.1	0.6	-0.2
@95%CB,	2.2	-0.0	-0.4	0.8	0.4	-0.2
@99%CB,	1.3	-0.0	-0.2	0.5	0.2	-0.1

"YATES" table for stove and rate for
K POTASSIUM

MEAN VALUE	1	2	
3.5	17.4	49.7	Total
13.8	32.3	27.3	B
7.6	10.3	14.9	D
24.7	17.0	6.7	BD

	B Stove	D Rate	BD
Main Effects	13.7	7.5	3.4
Error Variance	171.6		
Variance of Mean	128.7		
Stand. Deviation	13.1		
Signif. if > +-1	0.7	0.4	0.2
Signif. if > +-1	0.5	0.3	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ni NICKEL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.0	0.0	0.3	Total
0.0	0.0	0.0	0.0	0.0	0.3	-0.0	A
0.0	0.0	-0.0	0.0	0.1	-0.0	0.0	C
0.0	0.0	0.0	0.0	0.1	-0.0	-0.3	AC
0.0	0.0	0.0	0.0	0.0	0.0	0.2	D
0.1	0.1	0.0	0.1	-0.0	0.0	0.0	AD
0.1	0.1	0.0	0.1	0.1	-0.0	-0.0	CD
0.0	0.0	0.0	0.0	-0.1	-0.3	-0.2	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.0	-0.1	0.0	0.1	0.0	-0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	-0.8	-5.6	0.8	4.8	0.0	-0.0
@95%CB,	-0.6	-4.1	0.6	3.5	0.0	-0.0
@99%CB,	-0.3	-2.4	0.3	2.1	0.0	-0.0

"YATES" table for stove and rate for
Ni NICKEL

MEAN VALUE	1	2	
0.0	0.0	0.0	Total
0.0	0.0	0.0	B
0.0	0.0	0.0	D
0.0	0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PO4PHOSPHOROUS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.6	0.2	0.4	0.4	1.1	1.7	3.9	Total
0.7	0.7	0.0	0.7	0.5	2.2	2.1	A
0.0	0.2	-0.2	0.1	1.5	0.6	-1.4	C
0.3	0.5	-0.2	0.4	0.7	1.4	0.0	AC
0.5	0.3	0.2	0.4	0.3	-0.6	0.6	D
1.1	1.1	0.0	1.1	0.3	-0.8	0.8	AD
0.0	0.0	0.0	0.0	0.7	0.0	-0.1	CD
1.0	0.4	0.6	0.7	0.7	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.5	0.0	-0.3	0.1	0.2	-0.0
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	2.0	0.0	-1.3	0.5	0.8	-0.1
@95%CB,	1.5	0.0	-1.0	0.4	0.6	-0.1
@99%CB,	0.9	0.0	-0.6	0.2	0.3	-0.1

"YATES" table for stove and rate for PO4PHOSPHOROUS

MEAN VALUE	1	2	
0.5	0.9	1.5	Total
0.4	0.6	0.1	B
0.3	-0.0	-0.2	D
0.4	0.1	0.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	-0.1	0.1
Error Variance	0.1		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	0.1	-0.3	0.2
Signif. if > +-1	0.1	-0.2	0.2
Signif. if > +-1	0.1	-0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Pb LEAD

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.1	0.1	0.4	Total
0.1	0.1	0.0	0.1	0.1	0.2	0.4	A
0.0	0.0	0.0	0.0	0.1	0.1	-0.0	C
0.1	0.1	-0.0	0.1	0.1	0.2	-0.0	AC
0.0	0.0	0.0	0.0	0.1	0.0	0.1	D
0.1	0.1	0.0	0.1	0.1	-0.0	0.1	AD
0.0	0.0	0.0	0.0	0.1	0.0	-0.0	CD
0.1	0.1	0.0	0.1	0.1	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.1	-0.0	-0.0	0.0	0.0	-0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	4.8	-0.0	-0.0	0.9	0.9	-0.0
@95%CB,	3.5	-0.0	-0.0	0.7	0.7	-0.0
@99%CB,	2.1	-0.0	-0.0	0.4	0.4	-0.0

"YATES" table for stove and rate for Pb LEAD

MEAN VALUE	1	2	
0.2	0.2	0.2	Total
0.0	0.1	-0.2	B
0.1	-0.2	-0.1	D
0.0	-0.1	0.1	BD

	B Stove	D Rate	BD
Main Effects	-0.1	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	-4.0	-1.7	1.7
Signif. if > +-1	-3.0	-1.2	1.2
Signif. if > +-1	-1.8	-0.7	0.7

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
K POTASSIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.0	3.2	15.7	11.1	49.2	88.1	157.1	Total
38.1	38.1	0.0	38.1	38.9	69.0	97.4	A
2.2	9.7	-7.5	5.9	37.2	54.1	-15.8	C
27.2	38.8	-11.6	33.0	31.7	43.3	0.0	AC
9.9	5.6	4.3	7.8	27.0	-10.3	-19.2	D
29.4	29.4	0.0	29.4	27.0	-5.5	-10.7	AD
5.0	5.0	0.0	5.0	21.7	0.0	4.8	CD
30.3	23.1	7.1	26.7	21.7	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	24.3	0.0	-4.0	-4.8	-2.7	1.2
Error Variance	50.8					
Variance of Mean	25.4					
Stand. Deviation	5.0					
(Signif. if > +-1)						
@90%CB,	3.3	0.0	-0.5	-0.6	-0.4	0.2
@95%CB,	2.4	0.0	-0.4	-0.5	-0.3	0.1
@99%CB,	1.4	0.0	-0.2	-0.3	-0.2	0.1

"YATES" table for stove and rate for
K POTASSIUM

MEAN VALUE	1	2	
2.6	13.7	25.5	Total
11.1	11.7	12.3	B
3.9	8.5	-2.0	D
7.8	3.9	-4.6	BD

	B Stove	D Rate	BD
Main Effects	6.2	-1.0	-2.3
Error Variance	50.8		
Variance of Mean	38.1		
Stand. Deviation	7.1		
Signif. if > +-1	0.6	-0.1	-0.2
Signif. if > +-1	0.4	-0.1	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ni NICKEL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.0	0.0	0.1	Total
0.0	0.0	0.0	0.0	0.0	0.1	-0.0	A
0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	C
0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	AC
0.0	0.0	0.0	0.0	0.0	0.0	0.1	D
0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.0	-0.0	0.0	CD
0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.0	-0.0	0.0	0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	-0.8	-3.2	0.8	2.4	-0.0	0.0
@95%CB,	-0.6	-2.3	0.6	1.8	-0.0	0.0
@99%CB,	-0.3	-1.4	0.3	1.1	-0.0	0.0

"YATES" table for stove and rate for
Ni NICKEL

MEAN VALUE	1	2	
0.0	0.0	0.0	Total
0.0	0.0	0.0	B
0.0	0.0	0.0	D
0.0	0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PO4PHOSPHOROUS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.5	0.1	0.4	0.3	0.9	1.3	2.1	Total
0.6	0.6	0.0	0.6	0.4	0.8	1.1	A
0.0	0.1	-0.1	0.1	0.5	0.5	-0.8	C
0.2	0.4	-0.2	0.3	0.3	0.6	0.0	AC
0.1	0.1	0.1	0.1	0.3	-0.5	-0.4	D
0.4	0.4	0.0	0.4	0.3	-0.2	0.1	AD
0.0	0.0	0.0	0.0	0.3	0.0	0.3	CD
0.4	0.2	0.2	0.3	0.3	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.3	0.0	-0.2	-0.1	0.0	0.1
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	1.7	0.0	-1.2	-0.7	0.1	0.4
@95%CB,	1.2	0.0	-0.9	-0.5	0.1	0.3
@99%CB,	0.7	0.0	-0.5	-0.3	0.1	0.2

"YATES" table for stove and rate for PO4PHOSPHOROUS

MEAN VALUE	1	2	
0.3	0.7	0.9	Total
0.3	0.3	-0.0	B
0.1	-0.0	-0.4	D
0.1	-0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	-0.0	-0.2	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	-0.0	-0.9	0.0
Signif. if > +-1	-0.0	-0.7	0.0
Signif. if > +-1	-0.0	-0.4	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Pb LEAD

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.1	0.1	0.2	Total
0.1	0.1	0.0	0.1	0.1	0.1	0.2	A
0.0	0.0	0.0	0.0	0.0	0.1	0.0	C
0.0	0.1	-0.0	0.1	0.0	0.1	0.0	AC
0.0	0.0	0.0	0.0	0.1	0.0	-0.0	D
0.0	0.0	0.0	0.0	0.1	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	0.0	0.0	-0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	4.3	0.0	0.0	-0.4	-0.4	0.0
@95%CB,	3.1	0.0	0.0	-0.3	-0.3	0.0
@99%CB,	1.9	0.0	0.0	-0.2	-0.2	0.0

"YATES" table for stove and rate for Pb LEAD

MEAN VALUE	1	2	
0.1	0.1	0.1	Total
0.0	0.0	-0.1	B
0.0	-0.1	-0.1	D
0.0	-0.0	0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	-0.1	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	-4.4	-2.4	2.4
Signif. if > +-1	-3.2	-1.8	1.8
Signif. if > +-1	-1.9	-1.1	1.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Sn TIN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.2	0.0	0.2	0.1	0.4	0.6	0.6	Total
0.3	0.3	0.0	0.3	0.2	0.0	0.4	A
0.0	0.0	0.0	0.0	0.0	0.4	-0.2	C
0.1	0.3	-0.2	0.2	0.0	-0.0	0.0	AC
0.0	0.0	0.0	0.0	0.2	-0.2	-0.5	D
0.0	0.0	0.0	0.0	0.2	-0.0	-0.4	AD
0.0	0.0	0.0	0.0	-0.0	0.0	0.1	CD
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	0.0	-0.1	-0.1	-0.1	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	1.0	0.0	-0.6	-1.3	-1.0	0.4
@95%CB,	0.7	0.0	-0.5	-1.0	-0.7	0.3
@99%CB,	0.4	0.0	-0.3	-0.6	-0.4	0.2

"YATES" table for stove and rate for Sn TIN

MEAN VALUE	1	2	
0.0	0.1	0.1	Total
0.1	0.0	0.1	B
0.0	0.1	-0.1	D
0.0	0.0	-0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.1	-0.0	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.3	-0.2	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
138.9	158.6	-19.7	148.7	201.4	448.8	854.0	Total
52.7	52.7	0.0	52.7	247.4	405.2	-484.2	A
96.3	253.8	-157.5	175.1	139.4	-198.7	172.4	C
54.3	90.5	-36.2	72.4	265.8	-285.5	-13.3	AC
159.1	119.7	39.4	139.4	-96.0	46.0	-43.6	D
0.0	0.0	0.0	0.0	-102.7	126.4	-86.7	AD
208.1	203.8	4.3	205.9	-139.4	-6.7	80.3	CD
119.7	0.0	119.7	59.9	-146.1	-6.7	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-121.[illegible]	-3.3	43.1	-10.9	-21.7	20.1
Error Variance	4238.7					
Variance of Mean	2119.4					
Stand. Deviation	46.0					
(Signif. if > +-1)						
@90%CB,	-1.8	-0.0	0.6	-0.2	-0.3	0.3
@95%CB,	-1.3	-0.0	0.5	-0.1	-0.2	0.2
@99%CB,	-0.8	-0.0	0.3	-0.1	-0.1	0.1

"YATES" table for stove and rate for BENZENE

MEAN VALUE	1	2	
92.1	240.8	488.7	Total
148.7	248.0	87.5	B
108.5	56.7	7.2	D
139.4	30.9	-25.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	43.8	3.6	-12.9
Error Variance	4238.7		
Variance of Mean	3179.1		
Stand. Deviation	65.1		
Signif. if > +-1	0.5	0.0	-0.1
Signif. if > +-1	0.3	0.0	-0.1
Signif. if > +-1	0.2	0.0	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
METHYL ETHYL KETONE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
57.5	5.9	51.6	31.7	112.7	158.4	238.0	Total
81.0	81.0	0.0	81.0	45.7	79.6	-7.4	A
5.9	38.3	-32.4	22.1	5.2	50.8	2.2	C
16.2	30.9	-14.7	23.6	74.4	-58.2	-95.8	AC
5.9	4.4	1.5	5.2	49.4	-67.0	-78.8	D
0.0	0.0	0.0	0.0	1.5	69.3	-109.0	AD
7.4	120.1	-112.7	63.7	-5.2	-47.9	136.3	CD
21.4	0.0	21.4	10.7	-53.0	-47.9	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1.8	-23.9	0.6	-19.7	-27.3	34.1
Error Variance	438.7					
Variance of Mean	219.3					
Stand. Deviation	14.8					
(Signif. if > +-1)						
@90%CB,	-0.1	-1.1	0.0	-0.9	-1.2	1.6
@95%CB,	-0.1	-0.8	0.0	-0.7	-0.9	1.1
@99%CB,	-0.0	-0.5	0.0	-0.4	-0.5	0.7

"YATES" table for stove and rate for
METHYL ETHYL KETONE

MEAN VALUE	1	2	
4.4	36.1	44.9	Total
31.7	8.8	28.7	B
3.7	27.3	-27.3	D
5.2	1.5	-25.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.4	-13.6	-12.9
Error Variance	438.7		
Variance of Mean	329.0		
Stand. Deviation	20.9		
Signif. if > +-1	0.5	-0.4	-0.4
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2-METHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
121.5	6.7	114.8	64.1	173.1	280.5	350.3	Total
109.1	109.1	0.0	109.1	107.4	69.8	125.5	A
9.4	53.0	-43.6	31.2	29.2	89.9	-54.4	C
55.0	97.3	-42.3	76.2	40.6	35.6	-0.0	AC
6.0	5.4	0.7	5.7	45.0	-65.8	-210.7	D
23.5	23.5	0.0	23.5	45.0	11.4	-54.4	AD
8.7	14.1	-5.4	11.4	17.8	-0.0	77.2	CD
58.4	0.0	58.4	29.2	17.8	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	31.4	-0.0	-13.6	-52.7	-13.6	19.3
Error Variance	2026.9					
Variance of Mean	1013.5					
Stand. Deviation	31.8					
(Signif. if > +-1)						
@90%CB,	0.7	-0.0	-0.3	-1.1	-0.3	0.4
@95%CB,	0.5	-0.0	-0.2	-0.8	-0.2	0.3
@99%CB,	0.3	-0.0	-0.1	-0.5	-0.1	0.2

"YATES" table for stove and rate for
2-METHYL FURAN

MEAN VALUE	1	2	
215.4	279.5	289.2	Total
64.1	9.7	-149.7	B
4.0	-151.3	-269.8	D
5.7	1.7	153.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	-74.8	-134.9	76.5
Error Variance	2026.9		
Variance of Mean	1520.2		
Stand. Deviation	45.0		
Signif. if > +-1	-1.1	-2.0	1.2
Signif. if > +-1	-0.8	-1.5	0.8
Signif. if > +-1	-0.5	-0.9	0.5

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACETYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
719.1	1151.1	-432.0	935.1	1768.1	3202.1	9272.8	Total
833.0	833.0	0.0	833.0	1434.1	6070.7	-1325.1	A
296.0	1240.1	-944.1	768.1	3098.4	-204.1	-460.2	C
629.7	702.3	-72.7	666.0	2972.2	-1121.0	0.0	AC
2071.0	1588.0	483.0	1829.5	-102.1	-334.0	2868.6	D
1269.0	1269.0	0.0	1269.0	-102.1	-126.2	-916.9	AD
2295.3	1237.5	1057.9	1766.4	-560.5	0.0	207.8	CD
1576.6	835.2	741.4	1205.9	-560.5	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-331.3	0.0	-115.1	717.1	-229.2	52.0
Error Variance	186625.2					
Variance of Mean	93312.6					
Stand. Deviation	305.5					
(Signif. if > +-1)						
@90%CB,	-0.7	0.0	-0.3	1.6	-0.5	0.1
@95%CB,	-0.5	0.0	-0.2	1.2	-0.4	0.1
@99%CB,	-0.3	0.0	-0.1	0.7	-0.2	0.1

"YATES" table for stove and rate for ACETYLENE

MEAN VALUE	1	2	
367.4	1302.4	3687.4	Total
935.1	2385.0	1841.7	B
555.5	567.7	1082.5	D
1829.5	1274.0	706.3	BD

	B Stove	D Rate	BD
Main Effects	920.8	541.3	353.2
Error Variance	186625.2		
Variance of Mean	139968.9		
Stand. Deviation	432.0		
Signif. if > +-1	1.4	0.8	0.6
Signif. if > +-1	1.1	0.6	0.4
Signif. if > +-1	0.6	0.4	0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1538.4	1905.6	-367.3	1722.0	2587.5	5548.3	13061.4	Total
865.5	865.5	0.0	865.5	2960.7	7513.1	-6629.1	A
1116.1	2701.1	-1584.9	1908.6	2795.6	-1712.9	2295.1	C
834.1	1270.2	-436.1	1052.1	4717.5	-4916.2	0.0	AC
3020.6	2233.1	787.6	2626.8	-856.5	373.2	1964.8	D
168.7	168.7	0.0	168.7	-856.5	1921.9	-3203.3	AD
4213.5	2962.2	1251.3	3587.8	-2458.1	0.0	1548.7	CD
2259.4	0.0	2259.4	1129.7	-2458.1	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1657.3	0.0	573.8	491.2	-800.8	387.2
Error Variance	856225.4					
Variance of Mean	428112.7					
Stand. Deviation	654.3					
(Signif. if > +-1)						
@90%CB,	-1.7	0.0	0.6	0.5	-0.8	0.4
@95%CB,	-1.3	0.0	0.4	0.4	-0.6	0.3
@99%CB,	-0.8	0.0	0.3	0.2	-0.4	0.2

"YATES" table for stove and rate for BENZENE

MEAN VALUE	1	2	
948.6	2670.6	6750.3	Total
1722.0	4079.7	1947.4	B
1452.8	773.4	1409.1	D
2626.8	1174.0	400.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	973.7	704.5	200.3
Error Variance	856225.4		
Variance of Mean	642169.0		
Stand. Deviation	925.3		
Signif. if > +-1	0.7	0.5	0.1
Signif. if > +-1	0.5	0.4	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOLUENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1054.8	646.6	408.3	850.7	1543.2	2711.0	4880.0	Total
692.5	692.5	0.0	692.5	1167.8	2169.0	-2189.7	A
330.4	1248.1	-917.7	789.3	684.1	-569.0	425.5	C
281.1	475.9	-194.8	378.5	1484.9	-1620.7	-505.1	AC
766.1	602.1	164.0	684.1	-158.2	-375.4	-542.0	D
0.0	0.0	0.0	0.0	-410.8	800.8	-1051.8	AD
1514.5	907.1	607.4	1210.8	-684.1	-252.6	1176.2	CD
548.3	0.0	548.3	274.1	-936.7	-252.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-547.4	-126.3	106.4	-135.5	-262.9	294.1
Error Variance	137427.1					
Variance of Mean	68713.6					
Stand. Deviation	262.1					
(Signif. if > +-1)						
@90%CB,	-1.4	-0.3	0.3	-0.4	-0.7	0.8
@95%CB,	-1.0	-0.2	0.2	-0.3	-0.5	0.6
@99%CB,	-0.6	-0.1	0.1	-0.2	-0.3	0.3

"YATES" table for stove and rate for TOLUENE

MEAN VALUE	1	2	
354.8	1205.5	2386.4	Total
850.7	1180.9	683.1	B
496.8	495.9	-24.6	D
684.1	187.2	-308.6	BD

	B Stove	D Rate	BD
Main Effects	341.6	-12.3	-154.3
Error Variance	137427.1		
Variance of Mean	103070.4		
Stand. Deviation	370.7		
Signif. if > +-1	0.6	-0.0	-0.3
Signif. if > +-1	0.5	-0.0	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for O-XYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
216.3	267.3	-51.0	241.8	697.1	1054.0	1607.4	Total
455.3	455.3	0.0	455.3	357.0	553.3	-352.0	A
94.3	438.7	-344.4	266.5	0.0	37.5	213.2	C
66.7	114.2	-47.6	90.5	553.3	-389.6	-779.1	AC
0.0	0.0	0.0	0.0	213.5	-340.1	-500.7	D
0.0	0.0	0.0	0.0	-176.0	553.3	-427.1	AD
659.1	283.8	375.3	471.4	0.0	-389.6	893.5	CD
163.8	0.0	163.8	81.9	-389.6	-389.6	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-88.0	-194.8	53.3	-125.2	-106.8	223.4
Error Variance	15029.5					
Variance of Mean	7514.7					
Stand. Deviation	86.7					
(Signif. if > +-1)						
@90%CB,	-0.7	-1.5	0.4	-1.0	-0.8	1.7
@95%CB,	-0.5	-1.1	0.3	-0.7	-0.6	1.3
@99%CB,	-0.3	-0.7	0.2	-0.4	-0.4	0.8

"YATES" table for stove and rate for O-XYLENE

MEAN VALUE	1	2	
128.6	370.3	544.6	Total
241.8	174.2	-61.0	B
174.2	113.2	-196.1	D
0.0	-174.2	-287.4	BD

	B Stove	D Rate	BD
Main Effects	-30.5	-98.1	-143.7
Error Variance	15029.5		
Variance of Mean	11272.1		
Stand. Deviation	122.6		
Signif. if > +-1	-0.2	-0.5	-0.8
Signif. if > +-1	-0.1	-0.4	-0.6
Signif. if > +-1	-0.1	-0.2	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACETYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
532.6	852.6	-320.0	692.6	1309.7	2372.0	6868.8	Total
617.0	617.0	0.0	617.0	1062.3	4496.8	-981.6	A
219.3	918.6	-699.3	568.9	2295.1	-151.2	-340.9	C
466.4	520.3	-53.8	493.3	2201.7	-830.4	0.0	AC
1534.1	1176.3	357.8	1355.2	-75.6	-247.4	2124.9	D
940.0	940.0	0.0	940.0	-75.6	-93.5	-679.2	AD
1700.2	916.6	783.6	1308.4	-415.2	0.0	154.0	CD
1167.8	618.6	549.2	893.2	-415.2	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-245.4	0.0	-85.2	531.2	-169.8	38.5
Error Variance	102400.7					
Variance of Mean	51200.3					
Stand. Deviation	226.3					
(Signif. if > +-1)						
@90%CB,	-0.7	0.0	-0.3	1.6	-0.5	0.1
@95%CB,	-0.5	0.0	-0.2	1.2	-0.4	0.1
@99%CB,	-0.3	0.0	-0.1	0.7	-0.2	0.1

"YATES" table for stove and rate for ACETYLENE

MEAN VALUE	1	2	
272.1	964.8	2731.4	Total
692.6	1766.6	1364.2	B
411.5	420.5	801.9	D
1355.2	943.7	523.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	682.1	400.9	261.6
Error Variance	102400.7		
Variance of Mean	76800.5		
Stand. Deviation	320.0		
Signif. if > +-1	1.4	0.8	0.6
Signif. if > +-1	1.1	0.6	0.4
Signif. if > +-1	0.6	0.4	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1139.5	1411.6	-272.1	1275.6	1916.7	4109.8	9675.1	Total
641.1	641.1	0.0	641.1	2193.1	5565.3	-4910.5	A
826.8	2000.8	-1174.0	1413.8	2070.8	-1268.8	1700.1	C
617.8	940.9	-323.0	779.4	3494.4	-3641.6	0.0	AC
2237.5	1654.1	583.4	1945.8	-634.4	276.4	1455.4	D
125.0	125.0	0.0	125.0	-634.4	1423.6	-2372.8	AD
3121.1	2194.2	926.9	2657.6	-1820.8	0.0	1147.2	CD
1673.6	0.0	1673.6	836.8	-1820.8	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1227.6	0.0	425.0	363.9	-593.2	286.8
Error Variance	469808.2					
Variance of Mean	234904.1					
Stand. Deviation	484.7					
(Signif. if > +-1)						
@90%CB,	-1.7	0.0	0.6	0.5	-0.8	0.4
@95%CB,	-1.3	0.0	0.4	0.4	-0.6	0.3
@99%CB,	-0.8	0.0	0.3	0.2	-0.4	0.2

"YATES" table for stove and rate for BENZENE

MEAN VALUE	1	2	
702.7	1978.2	5000.2	Total
1275.6	3022.0	1442.5	B
1076.2	572.9	1043.7	D
1945.8	869.7	296.8	BD

	B Stove	D Rate	BD
Main Effects	721.3	521.9	148.4
Error Variance	469808.2		
Variance of Mean	352356.1		
Stand. Deviation	685.4		
Signif. if > +-1	0.7	0.5	0.1
Signif. if > +-1	0.5	0.4	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOLUENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
781.3	478.9	302.4	630.1	1143.1	2008.2	3614.8	Total
513.0	513.0	0.0	513.0	865.1	1606.7	-1622.0	A
244.8	924.5	-679.8	584.7	506.7	-421.5	315.2	C
208.2	352.5	-144.3	280.4	1099.9	-1200.6	-374.2	AC
567.5	446.0	121.5	506.7	-117.2	-278.1	-401.5	D
0.0	0.0	0.0	0.0	-304.3	593.2	-779.1	AD
1121.8	671.9	449.9	896.9	-506.7	-187.1	871.3	CD
406.1	0.0	406.1	203.1	-693.8	-187.1	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-405.5	-93.5	78.8	-100.4	-194.8	217.8
Error Variance	75405.8					
Variance of Mean	37702.9					
Stand. Deviation	194.2					
(Signif. if > +-1)						
@90%CB,	-1.4	-0.3	0.3	-0.4	-0.7	0.8
@95%CB,	-1.0	-0.2	0.2	-0.3	-0.5	0.6
@99%CB,	-0.6	-0.1	0.1	-0.2	-0.3	0.3

"YATES" table for stove and rate for TOLUENE

MEAN VALUE	1	2	
262.8	893.0	1767.7	Total
630.1	874.8	506.0	B
368.0	367.3	-18.2	D
506.7	138.7	-228.6	BD

	B Stove	D Rate	BD
Main Effects	253.0	-9.1	-114.3
Error Variance	75405.8		
Variance of Mean	56554.4		
Stand. Deviation	274.6		
Signif. if > +-1	0.6	-0.0	-0.3
Signif. if > +-1	0.5	-0.0	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
METHYL ETHYL KETONE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
471.6	52.5	419.1	262.0	1081.4	1510.9	2434.0	Total
819.4	819.4	0.0	819.4	429.5	923.1	9.8	A
50.6	302.0	-251.4	176.3	72.0	634.2	127.3	C
184.5	321.9	-137.4	253.2	851.1	-624.4	-960.9	AC
82.9	61.1	21.8	72.0	557.3	-651.9	-587.8	D
0.0	0.0	0.0	0.0	76.9	779.2	-1258.7	AD
110.5	1293.1	-1182.5	701.8	-72.0	-480.5	1431.0	CD
298.7	0.0	298.7	149.3	-552.4	-480.5	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	2.5	-240.2	31.8	-146.9	-314.7	357.8
Error Variance	34740.7					
Variance of Mean	17370.3					
Stand. Deviation	131.8					
(Signif. if > +-1)						
@90%CB,	0.0	-1.2	0.2	-0.8	-1.6	1.8
@95%CB,	0.0	-0.9	0.1	-0.6	-1.2	1.3
@99%CB,	0.0	-0.5	0.1	-0.3	-0.7	0.8

"YATES" table for stove and rate for
METHYL ETHYL KETONE

MEAN VALUE	1	2	
33.7	295.8	404.3	Total
262.0	108.5	263.7	B
36.5	228.3	-187.2	D
72.0	35.5	-192.8	BD

	B Stove	D Rate	BD
Main Effects	131.9	-93.6	-96.4
Error Variance	34740.7		
Variance of Mean	26055.5		
Stand. Deviation	186.4		
Signif. if > +-1	0.5	-0.3	-0.4
Signif. if > +-1	0.4	-0.2	-0.3
Signif. if > +-1	0.2	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2-METHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
996.7	59.7	936.9	528.2	1626.4	2695.0	3670.3	Total
1098.2	1098.2	0.0	1098.2	1068.6	975.3	1673.6	A
80.7	417.9	-337.3	249.3	425.9	1140.0	-434.3	C
626.4	1012.2	-385.7	819.3	549.4	533.6	-0.0	AC
84.9	74.2	10.8	79.6	570.0	-557.8	-1719.7	D
346.3	346.3	0.0	346.3	570.0	123.5	-606.5	AD
130.9	151.7	-20.9	141.3	266.8	-0.0	681.3	CD
816.2	0.0	816.2	408.1	266.8	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	418.4	-0.0	-108.6	-429.9	-151.6	170.3
Error Variance	180665.6					
Variance of Mean	90332.8					
Stand. Deviation	300.6					
(Signif. if > +-1)						
@90%CB,	0.9	-0.0	-0.2	-1.0	-0.3	0.4
@95%CB,	0.7	-0.0	-0.2	-0.7	-0.3	0.3
@99%CB,	0.4	-0.0	-0.1	-0.4	-0.1	0.2

"YATES" table for stove and rate for
2-METHYL FURAN

MEAN VALUE	1	2	
1644.4	2172.6	2292.1	Total
528.2	119.5	-1076.5	B
39.9	-1116.2	-2053.1	D
79.6	39.6	1155.8	BD

	B Stove	D Rate	BD
Main Effects	-538.3	-1026.6	577.9
Error Variance	180665.6		
Variance of Mean	135499.2		
Stand. Deviation	425.0		
Signif. if > +-1	-0.9	-1.6	0.9
Signif. if > +-1	-0.6	-1.2	0.7
Signif. if > +-1	-0.4	-0.7	0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for O-XYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
160.2	198.0	-37.8	179.1	516.4	780.8	1190.7	Total
337.3	337.3	0.0	337.3	264.4	409.9	-260.8	A
69.8	325.0	-255.1	197.4	0.0	27.8	157.9	C
49.4	84.6	-35.2	67.0	409.9	-288.6	-577.1	AC
0.0	0.0	0.0	0.0	158.2	-252.0	-370.9	D
0.0	0.0	0.0	0.0	-130.4	409.9	-316.3	AD
488.2	210.2	278.0	349.2	0.0	-288.6	661.8	CD
121.3	0.0	121.3	60.7	-288.6	-288.6	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-65.2	-144.3	39.5	-92.7	-79.1	165.5
Error Variance	8246.6					
Variance of Mean	4123.3					
Stand. Deviation	64.2					
(Signif. if > +-1)						
@90%CB,	-0.7	-1.5	0.4	-1.0	-0.8	1.7
@95%CB,	-0.5	-1.1	0.3	-0.7	-0.6	1.3
@99%CB,	-0.3	-0.7	0.2	-0.4	-0.4	0.8

"YATES" table for stove and rate for O-XYLENE

MEAN VALUE	1	2	
95.2	274.3	403.4	Total
179.1	129.1	-45.2	B
129.1	83.9	-145.3	D
0.0	-129.1	-212.9	BD

	B Stove	D Rate	BD
Main Effects	-22.6	-72.6	-106.5
Error Variance	8246.6		
Variance of Mean	6185.0		
Stand. Deviation	90.8		
Signif. if > +-1	-0.2	-0.5	-0.8
Signif. if > +-1	-0.1	-0.4	-0.6
Signif. if > +-1	-0.1	-0.2	-0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
BURN RATE (kg/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.2	1.6	-0.4	1.4	2.5	5.4	16.4	Total
1.1	1.1	0.0	1.1	3.0	11.0	-1.3	A
1.7	1.7	-0.0	1.7	6.0	-0.7	-0.6	C
1.4	1.3	0.1	1.3	5.0	-0.6	0.0	AC
3.2	3.1	0.0	3.2	-0.4	0.5	5.6	D
2.9	2.9	0.0	2.9	-0.4	-1.1	0.1	AD
2.9	2.3	0.6	2.6	-0.3	0.0	-1.6	CD
2.6	2.1	0.5	2.3	-0.3	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.3	0.0	-0.1	1.4	0.0	-0.4
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-1.4	0.0	-0.6	6.2	0.2	-1.8
@95%CB,	-1.0	0.0	-0.5	4.6	0.1	-1.3
@99%CB,	-0.6	0.0	-0.3	2.7	0.1	-0.8

"YATES" table for stove and rate for
BURN RATE (kg/hr)

MEAN VALUE	1	2	
1.3	2.7	7.8	Total
1.4	5.1	1.3	B
1.9	0.1	2.4	D
3.2	1.2	1.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.6	1.2	0.6
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	2.0	3.7	1.8
Signif. if > +-1	1.5	2.7	1.3
Signif. if > +-1	0.9	1.6	0.8

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
STACK FLOW (m3/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.1	12.0	-0.9	11.5	26.7	52.5	126.3	Total
15.1	15.1	0.0	15.1	25.8	73.8	8.5	A
11.6	10.6	0.9	11.1	38.3	7.2	-3.7	C
15.4	14.0	1.3	14.7	35.5	1.3	0.0	AC
19.0	18.7	0.3	18.8	3.6	-0.9	21.3	D
19.5	19.5	0.0	19.5	3.6	-2.9	-5.8	AD
20.3	14.5	5.7	17.4	0.7	0.0	-2.0	CD
18.9	17.2	1.6	18.1	0.7	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	2.1	0.0	-0.9	5.3	-1.5	-0.5
Error Variance	0.6					
Variance of Mean	0.3					
Stand. Deviation	0.6					
(Signif. if > +-1)						
@90%CB,	2.6	0.0	-1.1	6.4	-1.8	-0.6
@95%CB,	1.9	0.0	-0.8	4.7	-1.3	-0.4
@99%CB,	1.1	0.0	-0.5	2.8	-0.8	-0.3

"YATES" table for stove and rate for
STACK FLOW (m3/hr)

MEAN VALUE	1	2	
10.3	21.9	54.1	Total
11.5	32.2	6.7	B
13.4	1.2	10.4	D
18.8	5.4	4.2	BD

	B Stove	D Rate	BD
Main Effects	5.3	5.2	2.1
Error Variance	0.6		
Variance of Mean	0.5		
Stand. Deviation	0.8		
Signif. if > +-1	2.9	4.4	1.8
Signif. if > +-1	2.1	3.2	1.3
Signif. if > +-1	1.3	1.9	0.8

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
STACK TEMPERATURE (C)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
90.0	119.0	-29.0	104.5	194.0	469.0	1237.0	Total
89.5	89.5	0.0	89.5	275.0	768.0	16.0	A
171.0	119.0	52.0	145.0	422.0	-30.0	5.0	C
142.0	118.0	24.0	130.0	346.0	46.0	0.0	AC
204.0	195.0	9.0	199.5	-15.0	81.0	299.0	D
222.5	222.5	0.0	222.5	-15.0	-76.0	76.0	AD
195.0	128.0	67.0	161.5	23.0	0.0	-157.0	CD
211.0	158.0	53.0	184.5	23.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	4.0	0.0	1.3	74.8	19.0	-39.3
Error Variance	701.1					
Variance of Mean	350.6					
Stand. Deviation	18.7					
(Signif. if > +-1)						
@90%CB,	0.1	0.0	0.0	2.7	0.7	-1.4
@95%CB,	0.1	0.0	0.0	2.0	0.5	-1.0
@99%CB,	0.1	0.0	0.0	1.2	0.3	-0.6

"YATES" table for stove and rate for
STACK TEMPERATURE (C)

MEAN VALUE	1	2	
103.0	207.5	536.0	Total
104.5	328.5	72.0	B
129.0	1.5	121.0	D
199.5	70.5	69.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	36.0	60.5	34.5
Error Variance	701.1		
Variance of Mean	525.8		
Stand. Deviation	26.5		
Signif. if > +-1	0.9	1.5	0.9
Signif. if > +-1	0.7	1.1	0.6
Signif. if > +-1	0.4	0.7	0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
CO AVERAGE (%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.9	1.6	0.2	1.8	2.8	5.6	13.1	Total
1.0	1.0	0.0	1.0	2.8	7.5	-2.3	A
1.7	1.8	-0.0	1.8	4.3	-1.4	-1.0	C
0.9	1.2	-0.2	1.0	3.2	-0.8	0.0	AC
2.2	2.5	-0.3	2.3	-0.7	0.0	1.9	D
1.9	1.9	0.0	1.9	-0.7	-1.0	0.6	AD
1.6	2.0	-0.4	1.8	-0.4	-0.0	-1.0	CD
1.6	1.3	0.3	1.4	-0.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.6	0.0	-0.3	0.5	0.1	-0.3
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	-3.2	0.0	-1.5	2.6	0.8	-1.5
@95%CB,	-2.3	0.0	-1.1	1.9	0.6	-1.1
@99%CB,	-1.4	0.0	-0.6	1.2	0.4	-0.6

"YATES" table for stove and rate for
CO AVERAGE (%)

MEAN VALUE	1	2	
0.5	2.3	5.5	Total
1.8	3.3	2.6	B
1.0	1.3	1.0	D
2.3	1.4	0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.3	0.5	0.1
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	5.3	2.1	0.2
Signif. if > +-1	3.9	1.5	0.2
Signif. if > +-1	2.3	0.9	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
CO2 AVERAGE(%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8.0	11.3	-3.3	9.7	13.2	32.4	80.7	Total
3.5	3.5	0.0	3.5	19.3	48.3	-17.6	A
12.0	13.4	-1.4	12.7	25.4	-12.3	3.7	C
6.5	6.6	-0.1	6.5	23.0	-5.3	-0.0	AC
14.1	13.9	0.2	14.0	-6.2	6.1	15.9	D
11.4	11.4	0.0	11.4	-6.1	-2.4	7.0	AD
12.2	13.4	-1.2	12.8	-2.6	0.0	-8.5	CD
10.8	9.5	1.3	10.2	-2.7	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-4.4	-0.0	0.9	4.0	1.8	-2.1
Error Variance	1.5					
Variance of Mean	0.7					
Stand. Deviation	0.9					
(Signif. if > +-1)						
@90%CB,	-3.5	-0.0	0.7	3.2	1.4	-1.7
@95%CB,	-2.6	-0.0	0.5	2.3	1.0	-1.2
@99%CB,	-1.5	-0.0	0.3	1.4	0.6	-0.7

"YATES" table for stove and rate for
CO2 AVERAGE(%)

MEAN VALUE	1	2	
12.2	21.9	49.3	Total
9.7	27.4	-1.9	B
13.4	-2.5	5.5	D
14.0	0.6	3.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	-1.0	2.8	1.6
Error Variance	1.5		
Variance of Mean	1.1		
Stand. Deviation	1.2		
Signif. if > +-1	-0.5	1.6	0.9
Signif. if > +-1	-0.4	1.1	0.6
Signif. if > +-1	-0.2	0.7	0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
O2 AVERAGE (%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.8	8.7	3.1	10.3	26.2	47.8	81.1	Total
15.9	15.9	0.0	15.9	21.6	33.3	17.9	A
8.0	7.9	0.1	8.0	15.9	11.4	-3.2	C
13.9	13.4	0.5	13.7	17.4	6.5	0.0	AC
6.2	6.5	-0.3	6.3	5.7	-4.6	-14.5	D
9.6	9.6	0.0	9.6	5.7	1.4	-4.9	AD
7.3	6.8	0.5	7.0	3.3	0.0	6.0	CD
9.6	11.0	-1.4	10.3	3.3	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	4.5	0.0	-0.8	-3.6	-1.2	1.5
Error Variance	1.2					
Variance of Mean	0.6					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	3.9	0.0	-0.7	-3.2	-1.1	1.3
@95%CB,	2.9	0.0	-0.5	-2.3	-0.8	1.0
@99%CB,	1.7	0.0	-0.3	-1.4	-0.5	0.6

"YATES" table for stove and rate for
O2 AVERAGE (%)

MEAN VALUE	1	2	
8.0	18.3	31.9	Total
10.3	13.6	1.3	B
7.3	2.3	-4.6	D
6.3	-1.0	-3.2	BD

	B Stove	D Rate	BD
Main Effects	0.6	-2.3	-1.6
Error Variance	1.2		
Variance of Mean	0.9		
Stand. Deviation	1.1		
Signif. if > +-1	0.4	-1.4	-1.0
Signif. if > +-1	0.3	-1.0	-0.7
Signif. if > +-1	0.2	-0.6	-0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
O2 AVERAGE (%)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.8	8.7	3.1	10.3	26.2	47.8	81.1	Total
15.9	15.9	0.0	15.9	21.6	33.3	17.9	A
8.0	7.9	0.1	8.0	15.9	11.4	-3.2	C
13.9	13.4	0.5	13.7	17.4	6.5	0.0	AC
6.2	6.5	-0.3	6.3	5.7	-4.6	-14.5	D
9.6	9.6	0.0	9.6	5.7	1.4	-4.9	AD
7.3	6.8	0.5	7.0	3.3	0.0	6.0	CD
9.6	11.0	-1.4	10.3	3.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	4.5	0.0	-0.8	-3.6	-1.2	1.5
Error Variance	1.2					
Variance of Mean	0.6					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	3.9	0.0	-0.7	-3.2	-1.1	1.3
@95%CB,	2.9	0.0	-0.5	-2.3	-0.8	1.0
@99%CB,	1.7	0.0	-0.3	-1.4	-0.5	0.6

"YATES" table for stove and rate for
O2 AVERAGE (%)

MEAN VALUE	1	2	
8.0	18.3	31.9	Total
10.3	13.6	1.3	B
7.3	2.3	-4.6	D
6.3	-1.0	-3.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.6	-2.3	-1.6
Error Variance	1.2		
Variance of Mean	0.9		
Stand. Deviation	1.1		
Signif. if > +-1	0.4	-1.4	-1.0
Signif. if > +-1	0.3	-1.0	-0.7
Signif. if > +-1	0.2	-0.6	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for 11.0

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.0	26.0	-7.0	22.5	39.0	77.0	147.0	Total
16.5	16.5	0.0	16.5	38.0	70.0	-18.0	A
21.0	23.0	-2.0	22.0	32.0	-12.0	5.0	C
14.0	18.0	-4.0	16.0	38.0	-6.0	0.0	AC
29.0	6.0	23.0	17.5	-6.0	-1.0	-7.0	D
14.5	14.5	0.0	14.5	-6.0	6.0	6.0	AD
22.0	19.0	3.0	20.5	-3.0	0.0	7.0	CD
15.0	20.0	-5.0	17.5	-3.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-4.5	0.0	1.3	-1.8	1.5	1.8
Error Variance	62.3					
Variance of Mean	31.2					
Stand. Deviation	5.6					
(Signif. if > +-1)						
@90%CB,	-0.5	0.0	0.2	-0.2	0.2	0.2
@95%CB,	-0.4	0.0	0.1	-0.2	0.1	0.2
@99%CB,	-0.2	0.0	0.1	-0.1	0.1	0.1

"YATES" table for stove and rate for 11.0

MEAN VALUE	1	2	
11.0	33.5	51.0	Total
22.5	17.5	29.0	B
0.0	11.5	-16.0	D
17.5	17.5	6.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.5	-8.0	3.0
Error Variance	62.3		
Variance of Mean	46.7		
Stand. Deviation	7.9		
Signif. if > +-1	1.2	-0.7	0.3
Signif. if > +-1	0.9	-0.5	0.2
Signif. if > +-1	0.5	-0.3	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOTAL CAPTURE(g/m3)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
4.6	0.9	3.6	2.8	5.9	10.0	14.5	Total
3.1	3.1	0.0	3.1	4.2	4.5	1.7	A
0.9	2.9	-1.9	1.9	1.8	0.7	-0.7	C
2.1	2.5	-0.4	2.3	2.7	1.0	0.0	AC
0.7	0.6	0.1	0.6	0.3	-1.7	-5.5	D
1.1	1.1	0.0	1.1	0.3	0.9	0.3	AD
1.1	1.1	0.0	1.1	0.5	0.0	2.6	CD
2.3	0.9	1.4	1.6	0.5	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.4	0.0	-0.2	-1.4	0.1	0.7
Error Variance	1.9					
Variance of Mean	1.0					
Stand. Deviation	1.0					
(Signif. if > +-1)						
@90%CB,	0.3	0.0	-0.1	-1.0	0.1	0.5
@95%CB,	0.2	0.0	-0.1	-0.7	0.0	0.3
@99%CB,	0.1	0.0	-0.1	-0.4	0.0	0.2

"YATES" table for stove and rate for TOTAL CAPTURE(g/m3)

MEAN VALUE	1	2	
0.6	3.4	4.6	Total
2.8	1.2	2.2	B
0.6	2.2	-2.1	D
0.6	0.0	-2.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.1	-1.1	-1.1
Error Variance	1.9		
Variance of Mean	1.4		
Stand. Deviation	1.4		
Signif. if > +-1	0.5	-0.5	-0.5
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL CAPTURE (g/kg)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
42.9	6.8	36.1	24.9	62.5	100.3	132.3	Total
37.6	37.6	0.0	37.6	37.7	32.1	34.5	A
6.6	18.4	-11.8	12.5	12.1	25.5	-17.0	C
23.4	27.1	-3.7	25.2	19.9	9.0	0.0	AC
4.0	3.6	0.4	3.8	12.8	-24.8	-68.2	D
8.3	8.3	0.0	8.3	12.8	7.8	-16.5	AD
7.7	7.7	0.0	7.7	4.5	0.0	32.6	CD
16.8	7.6	9.2	12.2	4.5	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	8.6	0.0	-4.3	-17.0	-4.1	8.2
Error Variance	154.2					
Variance of Mean	77.1					
Stand. Deviation	8.8					
(Signif. if > +-1)						
@90%CB,	0.7	0.0	-0.3	-1.3	-0.3	0.6
@95%CB,	0.5	0.0	-0.2	-1.0	-0.2	0.5
@99%CB,	0.3	0.0	-0.1	-0.6	-0.1	0.3

"YATES" table for stove and rate for
TOTAL CAPTURE (g/kg)

MEAN VALUE	1	2	
4.7	29.5	37.5	Total
24.9	8.0	19.9	B
4.1	20.2	-21.6	D
3.8	-0.3	-20.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	10.0	-10.8	-10.3
Error Variance	154.2		
Variance of Mean	115.7		
Stand. Deviation	12.4		
Signif. if > +-1	0.5	-0.6	-0.6
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.3	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for GRAV (g/kg)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
26.7	3.8	22.9	15.2	39.9	62.8	81.7	Total
24.7	24.7	0.0	24.7	22.9	18.9	25.4	A
3.0	10.4	-7.4	6.7	7.3	19.0	-12.9	C
13.9	18.5	-4.6	16.2	11.5	6.5	-0.0	AC
2.0	2.1	-0.1	2.1	9.5	-17.0	-44.0	D
5.3	5.3	0.0	5.3	9.5	4.2	-12.5	AD
4.2	4.2	0.0	4.2	3.2	-0.0	21.2	CD
11.1	3.7	7.4	7.4	3.2	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	6.4	-0.0	-3.2	-11.0	-3.1	5.3
Error Variance	65.8					
Variance of Mean	32.9					
Stand. Deviation	5.7					
(Signif. if > +-1)						
@90%CB,	0.8	-0.0	-0.4	-1.3	-0.4	0.6
@95%CB,	0.5	-0.0	-0.3	-1.0	-0.3	0.5
@99%CB,	0.3	-0.0	-0.2	-0.6	-0.2	0.3

"YATES" table for stove and rate for GRAV (g/kg)

MEAN VALUE	1	2	
2.7	17.9	21.1	Total
15.2	3.2	13.5	B
1.1	12.6	-14.7	D
2.1	0.9	-11.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	6.7	-7.3	-5.8
Error Variance	65.8		
Variance of Mean	49.3		
Stand. Deviation	8.1		
Signif. if > +-1	0.6	-0.6	-0.5
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.3	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TCO (g/kg)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7.7	2.2	5.4	4.9	10.1	15.8	21.7	Total
5.1	5.1	0.0	5.1	5.7	5.9	-0.7	A
1.3	4.3	-2.9	2.8	1.8	0.3	-2.0	C
3.5	2.4	1.1	3.0	4.1	-1.0	-0.0	AC
1.1	1.2	-0.1	1.1	0.2	-4.3	-9.9	D
0.7	0.7	0.0	0.7	0.2	2.3	-1.3	AD
2.3	2.3	0.0	2.3	-0.5	0.0	6.7	CD
2.3	1.4	0.9	1.8	-0.5	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-0.2	-0.0	-0.5	-2.5	-0.3	1.7
Error Variance	4.0					
Variance of Mean	2.0					
Stand. Deviation	1.4					
(Signif. if > +-1)						
@90%CB,	-0.1	-0.0	-0.2	-1.2	-0.2	0.8
@95%CB,	-0.1	-0.0	-0.2	-0.9	-0.1	0.6
@99%CB,	-0.0	-0.0	-0.1	-0.5	-0.1	0.3

"YATES" table for stove and rate for
TCO (g/kg)

MEAN VALUE	1	2	
1.1	6.0	9.7	Total
4.9	3.7	2.5	B
2.5	3.9	-2.4	D
1.1	-1.4	-5.3	BD

	B Stove	D Rate	BD
Main Effects	1.2	-1.2	-2.6
Error Variance	4.0		
Variance of Mean	3.0		
Stand. Deviation	2.0		
Signif. if > +-1	0.4	-0.4	-0.9
Signif. if > +-1	0.3	-0.3	-0.7
Signif. if > +-1	0.2	-0.2	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
GRAV+TCO (g/kg)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
34.4	6.0	28.4	20.2	50.0	78.6	103.5	Total
29.8	29.8	0.0	29.8	28.6	24.8	24.7	A
4.3	14.7	-10.3	9.5	9.1	19.3	-14.8	C
17.4	20.9	-3.6	19.1	15.7	5.5	0.0	AC
3.2	3.3	-0.1	3.2	9.6	-21.4	-53.8	D
5.9	5.9	0.0	5.9	9.6	6.5	-13.8	AD
6.5	6.5	0.0	6.5	2.7	0.0	27.9	CD
13.4	5.0	8.3	9.2	2.7	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	6.2	0.0	-3.7	-13.5	-3.5	7.0
Error Variance	99.4					
Variance of Mean	49.7					
Stand. Deviation	7.0					
(Signif. if > +-1)						
@90%CB,	0.6	0.0	-0.4	-1.3	-0.3	0.7
@95%CB,	0.4	0.0	-0.3	-0.9	-0.2	0.5
@99%CB,	0.3	0.0	-0.2	-0.6	-0.1	0.3

"YATES" table for stove and rate for
GRAV+TCO (g/kg)

MEAN VALUE	1	2	
3.7	23.9	30.8	Total
20.2	6.9	16.0	B
3.7	16.4	-17.0	D
3.2	-0.5	-16.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	8.0	-8.5	-8.5
Error Variance	99.4		
Variance of Mean	74.5		
Stand. Deviation	10.0		
Signif. if > +-1	0.5	-0.6	-0.6
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.3	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for NAPHTHALENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7136.9	26613.6	-19476.7	16875.2	16875.2	50772.2	134097.7	Total
0.0	0.0	0.0	0.0	33896.9	83325.5	-94269.2	A
16350.7	41198.6	-24847.8	28774.7	28938.0	-40527.6	42471.1	C
3780.6	6463.9	-2683.3	5122.3	54387.5	-53741.5	-13554.3	AC
30989.1	21431.2	9557.9	26210.1	-16875.2	17021.7	32553.3	D
2727.9	2727.9	0.0	2727.9	-23652.4	25449.5	-13213.9	AD
42323.4	42323.4	0.0	42323.4	-23482.2	-6777.1	8427.8	CD
15759.7	8368.4	7391.4	12064.1	-30259.3	-6777.1	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-23567.3	-3388.6	10617.8	8138.3	-3303.5	2106.9
Error Variance	114994153.9					
Variance of Mean	57497077.0					
Stand. Deviation	7582.7					
(Signif. if > +-1)						
@90%CB,	-2.1	-0.3	0.9	0.7	-0.3	0.2
@95%CB,	-1.5	-0.2	0.7	0.5	-0.2	0.1
@99%CB,	-0.9	-0.1	0.4	0.3	-0.1	0.1

"YATES" table for stove and rate for NAPHTHALENE

MEAN VALUE	1	2	
12673.6	29548.8	79133.1	Total
16875.2	49584.3	7037.6	B
23374.2	4201.7	20035.5	D
26210.1	2836.0	-1365.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	3518.8	10017.7	-682.9
Error Variance	114994153.9		
Variance of Mean	86245615.5		
Stand. Deviation	10723.5		
Signif. if > +-1	0.2	0.6	-0.0
Signif. if > +-1	0.2	0.5	-0.0
Signif. if > +-1	0.1	0.3	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACENAPHTHYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
25331.9	9446.0	15885.9	17389.0	17389.0	46394.5	95929.5	Total
0.0	0.0	0.0	0.0	29005.6	49534.9	-41053.2	A
12739.5	34393.8	-21654.4	23566.6	31927.5	-35516.7	-2703.4	C
0.0	10877.9	-10877.9	5438.9	17607.5	-5536.6	-1477.5	AC
16501.5	17824.9	-1323.5	17163.2	-17389.0	11616.6	3140.4	D
14764.3	14764.3	0.0	14764.3	-18127.7	-14320.0	29980.1	AD
10372.6	10372.6	0.0	10372.6	-2398.9	-738.8	-25936.6	CD
10476.7	3993.1	6483.6	7234.9	-3137.7	-738.8	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-10263.3	-369.4	-675.8	785.1	7495.0	-6484.2
Error Variance	88339250.9					
Variance of Mean	44169625.4					
Stand. Deviation	6646.0					
(Signif. if > +-1)						
@90%CB,	-1.0	-0.0	-0.1	0.1	0.8	-0.7
@95%CB,	-0.8	-0.0	-0.1	0.1	0.6	-0.5
@99%CB,	-0.5	-0.0	-0.0	0.0	0.3	-0.3

"YATES" table for stove and rate for ACENAPHTHYLENE

MEAN VALUE	1	2	
6718.2	24107.2	50164.6	Total
17389.0	26057.4	18939.7	B
8894.2	10670.8	1950.3	D
17163.2	8269.0	-2401.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	9469.9	975.1	-1200.9
Error Variance	88339250.9		
Variance of Mean	66254438.2		
Stand. Deviation	9398.9		
Signif. if > +-1	0.7	0.1	-0.1
Signif. if > +-1	0.5	0.1	-0.1
Signif. if > +-1	0.3	0.0	-0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1793.2	2203.5	-410.2	1998.4	3691.3	6332.4	12394.1	Total
1692.9	1692.9	0.0	1692.9	2641.2	6061.7	-5385.3	A
776.7	2738.9	-1962.2	1757.8	1818.1	-1179.9	1375.3	C
618.9	1147.8	-528.9	883.3	4243.5	-4205.3	-1138.1	AC
2187.4	1448.9	738.5	1818.1	-305.4	-1050.1	-270.8	D
0.0	0.0	0.0	0.0	-874.5	2425.4	-3025.4	AD
3315.4	3315.4	0.0	3315.4	-1818.1	-569.0	3475.5	CD
1127.7	728.7	399.0	928.2	-2387.2	-569.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1346.3	-284.5	343.8	-67.7	-756.3	868.9
Error Variance	500290.3					
Variance of Mean	250145.1					
Stand. Deviation	500.1					
(Signif. if > +-1)						
@90%CB,	-1.8	-0.4	0.5	-0.1	-1.0	1.2
@95%CB,	-1.3	-0.3	0.3	-0.1	-0.8	0.9
@99%CB,	-0.8	-0.2	0.2	-0.0	-0.4	0.5

"YATES" table for stove and rate for FLUORENE

MEAN VALUE	1	2	
919.3	2917.7	5357.3	Total
1998.4	2439.7	2275.7	B
621.5	1079.0	-478.0	D
1818.1	1196.6	117.6	BD

	B Stove	D Rate	BD
Main Effects	1137.8	-239.0	58.8
Error Variance	500290.3		
Variance of Mean	375217.7		
Stand. Deviation	707.3		
Signif. if > +-1	1.1	-0.2	0.1
Signif. if > +-1	0.8	-0.2	0.0
Signif. if > +-1	0.5	-0.1	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PHENANTHRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3649.6	10207.0	-6557.3	6928.3	17678.2	25549.4	49120.3	Total
10749.9	10749.9	0.0	10749.9	7871.2	23570.9	-19247.4	A
2549.3	10032.3	-7483.0	6290.8	4913.3	-888.8	3937.3	C
1313.5	1847.3	-533.8	1580.4	18657.6	-18358.6	-17064.0	AC
6016.9	3809.7	2207.2	4913.3	3821.6	-9807.0	-1978.4	D
0.0	0.0	0.0	0.0	-4710.4	13744.3	-17469.8	AD
16051.5	16051.5	0.0	16051.5	-4913.3	-8532.0	23551.3	CD
3525.8	1686.6	1839.2	2606.2	-13445.3	-8532.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-4811.8	-4266.0	984.3	-494.6	-4367.5	5887.8
Error Variance	10753437.6					
Variance of Mean	5376718.8					
Stand. Deviation	2318.8					
(Signif. if > +-1)						
@90%CB,	-1.4	-1.2	0.3	-0.1	-1.3	1.7
@95%CB,	-1.0	-0.9	0.2	-0.1	-0.9	1.3
@99%CB,	-0.6	-0.5	0.1	-0.1	-0.6	0.8

"YATES" table for stove and rate for PHENANTHRENE

MEAN VALUE	1	2	
3140.1	10068.4	20340.3	Total
6928.3	10271.9	3342.9	B
5358.6	3788.2	203.6	D
4913.3	-445.3	-4233.6	BD

	B Stove	D Rate	BD
Main Effects	1671.4	101.8	-2116.8
Error Variance	10753437.6		
Variance of Mean	8065078.2		
Stand. Deviation	3279.2		
Signif. if > +-1	0.3	0.0	-0.4
Signif. if > +-1	0.3	0.0	-0.3
Signif. if > +-1	0.2	0.0	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
698.0	1565.9	-867.9	1131.9	2366.6	3470.7	7736.9	Total
1234.7	1234.7	0.0	1234.7	1104.0	4266.3	-4200.8	A
469.7	1314.0	-844.3	891.8	1420.8	-576.8	162.1	C
168.6	255.8	-87.2	212.2	2845.5	-3624.0	-1564.9	AC
830.9	2010.6	-1179.7	1420.8	102.8	-1262.6	795.6	D
0.0	0.0	0.0	0.0	-679.6	1424.7	-3047.1	AD
2524.4	2524.4	0.0	2524.4	-1420.8	-782.4	2687.3	CD
411.3	231.0	180.3	321.1	-2203.2	-782.4	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1050.2	-391.2	40.5	198.9	-761.8	671.8
Error Variance	289803.9					
Variance of Mean	144901.9					
Stand. Deviation	380.7					
(Signif. if > +-1)						
@90%CB,	-1.9	-0.7	0.1	0.4	-1.4	1.2
@95%CB,	-1.4	-0.5	0.1	0.3	-1.0	0.9
@99%CB,	-0.8	-0.3	0.0	0.2	-0.6	0.5

"YATES" table for stove and rate for ANTHRACENE

MEAN VALUE	1	2	
428.8	1560.7	3711.0	Total
1131.9	2150.3	1394.4	B
729.5	703.1	589.6	D
1420.8	691.3	-11.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	697.2	294.8	-5.9
Error Variance	289803.9		
Variance of Mean	217352.9		
Stand. Deviation	538.3		
Signif. if > +-1	0.9	0.4	-0.0
Signif. if > +-1	0.6	0.3	-0.0
Signif. if > +-1	0.4	0.2	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORANTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
739.9	2835.5	-2095.7	1787.7	4732.1	6550.1	13222.6	Total
2944.4	2944.4	0.0	2944.4	1818.0	6672.5	-4992.9	A
729.3	2239.5	-1510.2	1484.4	1345.6	5.9	1067.2	C
333.3	333.9	-0.6	333.6	5326.9	-4998.7	-4615.2	AC
1486.5	1204.7	281.8	1345.6	1156.7	-2914.1	122.3	D
0.0	0.0	0.0	0.0	-1150.9	3981.3	-5004.6	AD
4490.0	4490.0	0.0	4490.0	-1345.6	-2307.6	6895.5	CD
1106.9	566.8	540.1	836.9	-3653.2	-2307.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1248.2	-1153.8	266.8	30.6	-1251.2	1723.9
Error Variance	704365.4					
Variance of Mean	352182.7					
Stand. Deviation	593.4					
(Signif. if > +-1)						
@90%CB,	-1.4	-1.3	0.3	0.0	-1.4	2.0
@95%CB,	-1.0	-1.0	0.2	0.0	-1.0	1.4
@99%CB,	-0.6	-0.6	0.1	0.0	-0.6	0.9

"YATES" table for stove and rate for FLUORANTHENE

MEAN VALUE	1	2	
729.2	2516.9	5130.6	Total
1787.7	2613.6	1136.0	B
1268.0	1058.5	96.7	D
1345.6	77.5	-980.9	BD

	B Stove	D Rate	BD
Main Effects	568.0	48.3	-490.5
Error Variance	704365.4		
Variance of Mean	528274.1		
Stand. Deviation	839.3		
Signif. if > +-1	0.5	0.0	-0.4
Signif. if > +-1	0.3	0.0	-0.3
Signif. if > +-1	0.2	0.0	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1227.7	2775.3	-1547.5	2001.5	6200.7	8268.3	15893.2	Total
4199.2	4199.2	0.0	4199.2	2067.6	7624.8	-4739.9	A
981.5	2397.4	-1415.9	1689.5	1058.6	886.4	1374.5	C
333.0	423.3	-90.4	378.1	6566.2	-5626.3	-7018.2	AC
1187.6	929.6	258.0	1058.6	2197.7	-4133.1	-643.5	D
0.0	0.0	0.0	0.0	-1311.3	5507.6	-6512.7	AD
5566.9	5566.9	0.0	5566.9	-1058.6	-3509.1	9640.7	CD
1469.2	529.3	939.9	999.2	-4567.7	-3509.1	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1185.0	-1754.5	343.6	-160.9	-1628.2	2410.2
Error Variance	535773.9					
Variance of Mean	267886.9					
Stand. Deviation	517.6					
(Signif. if > +-1)						
@90%CB,	-1.6	-2.3	0.4	-0.2	-2.1	3.2
@95%CB,	-1.1	-1.7	0.3	-0.2	-1.6	2.3
@99%CB,	-0.7	-1.0	0.2	-0.1	-0.9	1.4

"YATES" table for stove and rate for PYRENE

MEAN VALUE	1	2	
701.9	2703.4	5107.7	Total
2001.5	2404.3	1012.6	B
1345.6	1299.6	-299.2	D
1058.6	-287.0	-1586.6	BD

	B Stove	D Rate	BD
Main Effects	506.3	-149.6	-793.3
Error Variance	535773.9		
Variance of Mean	401830.4		
Stand. Deviation	732.0		
Signif. if > +-1	0.5	-0.1	-0.7
Signif. if > +-1	0.3	-0.1	-0.5
Signif. if > +-1	0.2	-0.1	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
470.5	3129.6	-2659.1	1800.1	1800.1	4403.4	12316.6	Total
0.0	0.0	0.0	0.0	2603.3	7913.2	-6015.6	A
1188.6	3401.0	-2212.4	2294.8	3398.6	-3786.4	1919.2	C
146.3	470.8	-324.5	308.5	4514.5	-2229.2	-5126.7	AC
1689.3	353.7	1335.6	1021.5	-1800.1	803.3	3509.8	D
2377.1	2377.1	0.0	2377.1	-1986.3	1115.9	1557.1	AD
4049.7	4049.7	0.0	4049.7	1355.6	-186.2	312.6	CD
741.5	188.1	553.4	464.8	-3584.9	-4940.5	-4754.3	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1503.9	-1281.7	479.8	877.4	389.3	78.2
Error Variance	1416074.6					
Variance of Mean	708037.3					
Stand. Deviation	841.4					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.0	0.4	0.7	0.3	0.1
@95%CB,	-0.9	-0.8	0.3	0.5	0.2	0.0
@99%CB,	-0.5	-0.5	0.2	0.3	0.1	0.0

"YATES" table for stove and rate for BENZO(a)ANTHRACENE

MEAN VALUE	1	2	
1271.4	3071.4	6074.9	Total
1800.1	3003.4	-431.7	B
1981.9	528.7	-68.0	D
1021.5	-960.4	-1489.1	BD

	B Stove	D Rate	BD
Main Effects	-215.9	-34.0	-744.6
Error Variance	1416074.6		
Variance of Mean	1062055.9		
Stand. Deviation	1190.0		
Signif. if > +-1	-0.1	-0.0	-0.4
Signif. if > +-1	-0.1	-0.0	-0.3
Signif. if > +-1	-0.1	-0.0	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(e)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1880.1	1276.7	603.5	1578.4	2837.2	4113.2	6353.9	Total
1258.9	1258.9	0.0	1258.9	1275.9	2240.7	-3421.9	A
347.3	2122.9	-1775.6	1235.1	516.7	-1513.8	-354.0	C
0.0	81.7	-81.7	40.8	1724.0	-1908.1	-1749.5	AC
607.7	425.7	182.1	516.7	-319.5	-1561.3	-1872.5	D
0.0	0.0	0.0	0.0	-1194.3	1207.3	-394.3	AD
1557.7	1557.7	0.0	1557.7	-516.7	-874.7	2768.6	CD
242.8	89.8	153.0	166.3	-1391.4	-874.7	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-855.5	-437.4	-88.5	-468.1	-98.6	692.2
Error Variance	358018.1					
Variance of Mean	179009.0					
Stand. Deviation	423.1					
(Signif. if > +-1)						
@90%CB,	-1.4	-0.7	-0.1	-0.7	-0.2	1.1
@95%CB,	-1.0	-0.5	-0.1	-0.5	-0.1	0.8
@99%CB,	-0.6	-0.3	-0.1	-0.3	-0.1	0.5

"YATES" table for stove and rate for BENZO(e)PYRENE

MEAN VALUE	1	2	
546.2	2124.6	2711.5	Total
1578.4	586.9	1478.7	B
70.2	1032.2	-1537.7	D
516.7	446.5	-585.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	739.3	-768.9	-292.8
Error Variance	358018.1		
Variance of Mean	268513.5		
Stand. Deviation	598.3		
Signif. if > +-1	0.8	-0.9	-0.3
Signif. if > +-1	0.6	-0.6	-0.2
Signif. if > +-1	0.4	-0.4	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
BENZO(b)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1381.4	583.6	797.8	982.5	2047.5	2629.1	4040.5	Total
1065.0	1065.0	0.0	1065.0	581.6	1411.4	-1588.6	A
162.6	942.0	-779.4	552.3	271.2	-440.5	-597.1	C
0.0	58.5	-58.5	29.3	1140.1	-1148.0	-1211.1	AC
318.5	224.0	94.5	271.2	82.5	-1466.0	-1217.7	D
0.0	0.0	0.0	0.0	-523.0	868.9	-707.5	AD
1008.5	1008.5	0.0	1008.5	-271.2	-605.5	2334.8	CD
192.5	70.9	121.6	131.7	-876.8	-605.5	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-397.1	-302.8	-149.3	-304.4	-176.9	583.7
Error Variance	127099.0					
Variance of Mean	63549.5					
Stand. Deviation	252.1					
(Signif. if > +-1)						
@90%CB,	-1.1	-0.8	-0.4	-0.8	-0.5	1.6
@95%CB,	-0.8	-0.6	-0.3	-0.6	-0.3	1.1
@99%CB,	-0.5	-0.4	-0.2	-0.4	-0.2	0.7

"YATES" table for stove and rate for
BENZO(b)FLUORANTHE

MEAN VALUE	1	2	
90.7	1073.2	1673.2	Total
982.5	600.1	834.3	B
328.8	891.8	-473.1	D
271.2	-57.6	-949.4	BD

	B Stove	D Rate	BD
Main Effects	417.1	-236.6	-474.7
Error Variance	127099.0		
Variance of Mean	95324.2		
Stand. Deviation	356.5		
Signif. if > +-1	0.8	-0.4	-0.9
Signif. if > +-1	0.6	-0.3	-0.7
Signif. if > +-1	0.3	-0.2	-0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(k)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
96.1	221.6	-125.5	158.9	434.7	538.5	1005.7	Total
275.8	275.8	0.0	275.8	103.8	467.3	-299.5	A
57.8	103.8	-46.0	80.8	92.0	59.2	-47.7	C
23.2	22.8	0.4	23.0	375.2	-358.7	-349.4	AC
105.7	78.3	27.4	92.0	117.0	-330.9	-71.2	D
0.0	0.0	0.0	0.0	-57.8	283.2	-417.9	AD
321.0	321.0	0.0	321.0	-92.0	-174.7	614.1	CD
79.9	28.7	51.2	54.3	-266.7	-174.7	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-74.9	-87.4	-11.9	-17.8	-104.5	153.5
Error Variance	2123.5					
Variance of Mean	1061.8					
Stand. Deviation	32.6					
(Signif. if > +-1)						
@90%CB,	-1.6	-1.8	-0.2	-0.4	-2.2	3.2
@95%CB,	-1.1	-1.3	-0.2	-0.3	-1.6	2.3
@99%CB,	-0.7	-0.8	-0.1	-0.2	-1.0	1.4

"YATES" table for stove and rate for BENZO(k)FLUORANTHE

MEAN VALUE	1	2	
30.6	189.4	377.8	Total
158.9	188.3	123.9	B
96.3	128.3	-1.1	D
92.0	-4.3	-132.6	BD

	B Stove	D Rate	BD
Main Effects	62.0	-0.5	-66.3
Error Variance	2123.5		
Variance of Mean	1592.6		
Stand. Deviation	46.1		
Signif. if > +-1	0.9	-0.0	-1.0
Signif. if > +-1	0.7	-0.0	-0.7
Signif. if > +-1	0.4	-0.0	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
155.9	639.0	-483.1	397.5	1095.1	1412.7	2581.9	Total
697.6	697.6	0.0	697.6	317.6	1169.2	-760.4	A
154.5	352.0	-197.5	253.2	191.3	111.3	9.1	C
53.4	75.4	-22.0	64.4	977.9	-871.7	-978.0	AC
222.1	160.6	61.5	191.3	300.1	-777.5	-243.5	D
0.0	0.0	0.0	0.0	-188.9	786.5	-982.9	AD
829.1	829.1	0.0	829.1	-191.3	-489.0	1564.0	CD
244.7	52.9	191.8	148.8	-680.3	-489.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-190.1	-244.5	2.3	-60.9	-245.7	391.0
Error Variance	31344.7					
Variance of Mean	15672.3					
Stand. Deviation	125.2					
(Signif. if > +-1)						
@90%CB,	-1.0	-1.3	0.0	-0.3	-1.3	2.1
@95%CB,	-0.8	-1.0	0.0	-0.2	-1.0	1.6
@99%CB,	-0.5	-0.6	0.0	-0.1	-0.6	0.9

"YATES" table for stove and rate for BENZO(a)PYRENE

MEAN VALUE	1	2	
81.9	479.4	880.7	Total
397.5	401.3	296.8	B
210.0	315.5	-78.1	D
191.3	-18.7	-334.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	148.4	-39.0	-167.1
Error Variance	31344.7		
Variance of Mean	23508.5		
Stand. Deviation	177.0		
Signif. if > +-1	0.6	-0.1	-0.6
Signif. if > +-1	0.4	-0.1	-0.5
Signif. if > +-1	0.2	-0.1	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(g,h,i)PERYLE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	347.4	-347.4	173.7	173.7	656.1	2249.9	Total
0.0	0.0	0.0	0.0	482.4	1593.8	-1326.7	A
97.0	825.7	-728.6	461.4	547.1	-614.0	808.2	C
0.0	42.0	-42.0	21.0	1046.7	-712.7	-1181.5	AC
267.8	178.3	89.5	223.0	-173.7	308.7	937.8	D
324.1	324.1	0.0	324.1	-440.3	499.5	-98.7	AD
930.2	930.2	0.0	930.2	101.1	-266.6	190.9	CD
143.4	89.5	53.9	116.4	-813.8	-914.9	-648.2	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-331.7	-295.4	202.1	234.4	-24.7	47.7
Error Variance	66423.4					
Variance of Mean	33211.7					
Stand. Deviation	182.2					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.1	0.8	0.9	-0.1	0.2
@95%CB,	-0.9	-0.8	0.6	0.6	-0.1	0.1
@99%CB,	-0.5	-0.5	0.3	0.4	-0.0	0.1

"YATES" table for stove and rate for BENZO(g,h,i)PERYLE

MEAN VALUE	1	2	
166.3	340.0	721.9	Total
173.7	381.9	71.5	B
158.9	7.4	41.9	D
223.0	64.2	56.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	35.8	20.9	28.4
Error Variance	66423.4		
Variance of Mean	49817.6		
Stand. Deviation	257.7		
Signif. if > +-1	0.1	0.1	0.1
Signif. if > +-1	0.1	0.0	0.1
Signif. if > +-1	0.0	0.0	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for DIBENZO(a,h)ANTHRA

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	86.4	-86.4	43.2	241.9	268.3	592.7	Total
198.7	198.7	0.0	198.7	26.4	324.4	-102.4	A
20.4	12.3	8.2	16.4	44.9	149.2	19.2	C
0.0	20.1	-20.1	10.1	279.6	-251.5	-323.5	AC
62.1	27.6	34.5	44.9	155.5	-215.5	56.2	D
0.0	0.0	0.0	0.0	-6.3	234.7	-400.7	AD
243.1	243.1	0.0	243.1	-44.9	-161.8	450.1	CD
67.3	5.6	61.7	36.5	-206.6	-161.8	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-25.6	-80.9	4.8	14.0	-100.2	112.5
Error Variance	1293.3					
Variance of Mean	646.6					
Stand. Deviation	25.4					
(Signif. if > +-1)						
@90%CB,	-0.7	-2.2	0.1	0.4	-2.7	3.0
@95%CB,	-0.5	-1.6	0.1	0.3	-2.0	2.2
@99%CB,	-0.3	-0.9	0.1	0.2	-1.2	1.3

"YATES" table for stove and rate for DIBENZO(a,h)ANTHRA

MEAN VALUE	1	2	
77.8	121.0	174.2	Total
43.2	53.1	2.0	B
8.2	-34.6	-67.9	D
44.9	36.6	71.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.0	-34.0	35.6
Error Variance	1293.3		
Variance of Mean	969.9		
Stand. Deviation	36.0		
Signif. if > +-1	0.0	-0.6	0.7
Signif. if > +-1	0.0	-0.5	0.5
Signif. if > +-1	0.0	-0.3	0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL GC/MS PAH

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
44565.8	63284.7	-18718.9	53925.2	53925.2	142881.4	328190.3	Total
0.0	0.0	0.0	0.0	88956.2	185308.8*********		A
37976.9	108048.4	-70071.6	73012.7	64577.7*********		91184.4	C
9366.6	22520.4	-13153.8	15943.5	120731.1*********		-15141.2	AC
69054.8	51247.2	17807.6	60151.0	-53925.2	35031.0	42427.4	D
4426.7	4426.7	0.0	4426.7	-57069.1	56153.4	-12451.6	AD
94226.4	94226.4	0.0	94226.4	-55724.4	-3143.9	21122.5	CD
36143.4	16866.1	19277.3	26504.8	-67721.6	-11997.2	-8853.3	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-58610.1	-3785.3	22796.1	10606.9	-3112.9	5280.6
Error Variance	612216549.8					
Variance of Mean	306108274.9					
Stand. Deviation	17496.0					
(Signif. if > +-1)						
@90%CB,	-2.3	-0.1	0.9	0.4	-0.1	0.2
@95%CB,	-1.7	-0.1	0.6	0.3	-0.1	0.1
@99%CB,	-1.0	-0.1	0.4	0.2	-0.1	0.1

"YATES" table for stove and rate for
TOTAL GC/MS PAH

MEAN VALUE	1	2	
28263.5	82188.7	187512.8	Total
53925.2	105324.1	40639.7	B
45173.1	25661.7	23135.4	D
60151.0	14978.0	-10683.8	BD

	B Stove	D Rate	BD
Main Effects	20319.8	11567.7	-5341.9
Error Variance	612216549.8		
Variance of Mean	459162412.4		
Stand. Deviation	24743.0		
Signif. if > +-1	0.6	0.3	-0.1
Signif. if > +-1	0.4	0.2	-0.1
Signif. if > +-1	0.2	0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for NAPHTHALENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
79.1	319.8	-240.8	199.4	199.4	587.8	2262.0	Total
0.0	0.0	0.0	0.0	388.4	1674.2	-1467.1	A
189.5	438.4	-248.9	314.0	596.2	-439.0	670.8	C
58.1	90.8	-32.7	74.4	1078.0	-1028.2	-284.4	AC
588.4	399.7	188.6	494.0	-199.4	188.9	1086.3	D
102.1	102.1	0.0	102.1	-239.5	481.8	-589.2	AD
857.1	857.1	0.0	857.1	-391.9	-40.1	292.9	CD
297.4	144.3	153.1	220.9	-636.3	-244.3	-204.3	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-366.8	-71.1	167.7	271.6	-147.3	73.2
Error Variance	18003.2					
Variance of Mean	9001.6					
Stand. Deviation	94.9					
(Signif. if > +-1)						
@90%CB,	-2.6	-0.5	1.2	1.9	-1.1	0.5
@95%CB,	-1.9	-0.4	0.9	1.4	-0.8	0.4
@99%CB,	-1.1	-0.2	0.5	0.9	-0.5	0.2

"YATES" table for stove and rate for NAPHTHALENE

MEAN VALUE	1	2	
130.6	330.0	1136.9	Total
199.4	806.9	250.1	B
312.8	68.8	476.8	D
494.0	181.2	112.4	BD

	B Stove	D Rate	BD
Main Effects	125.0	238.4	56.2
Error Variance	18003.2		
Variance of Mean	13502.4		
Stand. Deviation	134.2		
Signif. if > +-1	0.6	1.2	0.3
Signif. if > +-1	0.5	0.9	0.2
Signif. if > +-1	0.3	0.5	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACENAPHTHYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
280.6	113.5	167.1	197.1	213.7	546.9	1459.2	Total
16.6	16.6	0.0	16.6	333.2	912.4	-514.5	A
147.6	366.0	-218.4	256.8	569.0	-360.9	-106.1	C
0.0	152.7	-152.7	76.4	343.4	-153.5	0.0	AC
313.3	332.5	-19.2	322.9	-180.5	119.5	365.5	D
246.1	246.1	0.0	246.1	-180.5	-225.6	207.4	AD
210.1	210.1	0.0	210.1	-76.8	0.0	-345.2	CD
197.7	68.9	128.8	133.3	-76.8	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-128.6	0.0	-26.5	91.4	51.8	-86.3
Error Variance	11590.6					
Variance of Mean	5795.3					
Stand. Deviation	76.1					
(Signif. if > +-1)						
@90%CB,	-1.1	0.0	-0.2	0.8	0.5	-0.8
@95%CB,	-0.8	0.0	-0.2	0.6	0.3	-0.6
@99%CB,	-0.5	0.0	-0.1	0.4	0.2	-0.3

"YATES" table for stove and rate for ACENAPHTHYLENE

MEAN VALUE	1	2	
69.2	266.3	708.2	Total
197.1	441.9	331.7	B
119.0	127.8	175.6	D
322.9	203.8	76.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	165.8	87.8	38.0
Error Variance	11590.6		
Variance of Mean	8693.0		
Stand. Deviation	107.7		
Signif. if > +-1	1.0	0.6	0.2
Signif. if > +-1	0.8	0.4	0.2
Signif. if > +-1	0.5	0.2	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.9	26.5	-6.6	23.2	56.0	87.9	206.3	Total
32.9	32.9	0.0	32.9	31.9	118.3	-81.1	A
9.0	29.1	-20.1	19.1	34.3	3.4	25.7	C
9.5	16.1	-6.6	12.8	84.1	-84.5	-31.9	AC
41.5	27.0	14.5	34.3	9.7	-24.1	30.4	D
0.0	0.0	0.0	0.0	-6.3	49.8	-87.9	AD
67.1	67.1	0.0	67.1	-34.3	-15.9	73.9	CD
21.3	12.6	8.7	16.9	-50.2	-15.9	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-20.3	-8.0	6.4	7.6	-22.0	18.5
Error Variance	78.0					
Variance of Mean	39.0					
Stand. Deviation	6.2					
(Signif. if > +-1)						
@90%CB,	-2.2	-0.9	0.7	0.8	-2.4	2.0
@95%CB,	-1.6	-0.6	0.5	0.6	-1.7	1.5
@99%CB,	-1.0	-0.4	0.3	0.4	-1.0	0.9

"YATES" table for stove and rate for FLUORENE

MEAN VALUE	1	2	
9.5	32.6	75.2	Total
23.2	42.6	39.7	B
8.3	13.7	9.9	D
34.3	26.0	12.3	BD

	B Stove	D Rate	BD
Main Effects	19.8	5.0	6.1
Error Variance	78.0		
Variance of Mean	58.5		
Stand. Deviation	8.8		
Signif. if > +-1	1.5	0.4	0.5
Signif. if > +-1	1.1	0.3	0.3
Signif. if > +-1	0.7	0.2	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PHENANTHRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
40.4	122.7	-82.2	81.5	302.6	393.8	859.4	Total
221.1	221.1	0.0	221.1	91.2	465.5	-275.5	A
29.5	106.8	-77.2	68.2	92.6	94.4	68.8	C
20.2	25.9	-5.8	23.1	372.9	-369.9	-369.2	AC
114.2	71.1	43.2	92.6	139.5	-211.4	71.7	D
0.0	0.0	0.0	0.0	-45.1	280.2	-464.3	AD
325.1	325.1	0.0	325.1	-92.6	-184.6	491.6	CD
66.5	29.1	37.4	47.8	-277.3	-184.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-68.9	-92.3	17.2	17.9	-116.1	122.9
Error Variance	1602.6					
Variance of Mean	801.3					
Stand. Deviation	28.3					
(Signif. if > +-1)						
@90%CB,	-1.6	-2.2	0.4	0.4	-2.8	2.9
@95%CB,	-1.2	-1.6	0.3	0.3	-2.0	2.2
@99%CB,	-0.7	-1.0	0.2	0.2	-1.2	1.3

"YATES" table for stove and rate for PHENANTHRENE

MEAN VALUE	1	2	
32.4	113.9	278.3	Total
81.5	164.4	70.1	B
71.7	49.2	50.5	D
92.6	20.9	-28.3	BD

	B Stove	D Rate	BD
Main Effects	35.1	25.2	-14.1
Error Variance	1602.6		
Variance of Mean	1202.0		
Stand. Deviation	40.0		
Signif. if > +-1	0.6	0.4	-0.2
Signif. if > +-1	0.4	0.3	-0.2
Signif. if > +-1	0.3	0.2	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7.7	18.8	-11.1	13.3	38.5	51.3	135.0	Total
25.3	25.3	0.0	25.3	12.8	83.6	-66.5	A
5.4	14.0	-8.5	9.7	26.6	5.4	4.6	C
2.6	3.6	-1.0	3.1	57.0	-71.9	-37.2	AC
15.8	37.5	-21.7	26.6	12.0	-25.7	32.3	D
0.0	0.0	0.0	0.0	-6.6	30.4	-77.3	AD
51.1	51.1	0.0	51.1	-26.6	-18.6	56.1	CD
7.8	4.0	3.8	5.9	-45.3	-18.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-16.6	-9.3	1.2	8.1	-19.3	14.0
Error Variance	68.3					
Variance of Mean	34.2					
Stand. Deviation	5.8					
(Signif. if > +-1)						
@90%CB,	-1.9	-1.1	0.1	0.9	-2.2	1.6
@95%CB,	-1.4	-0.8	0.1	0.7	-1.6	1.2
@99%CB,	-0.8	-0.5	0.1	0.4	-1.0	0.7

"YATES" table for stove and rate for ANTHRACENE

MEAN VALUE	1	2	
4.4	17.7	54.1	Total
13.3	36.4	25.7	B
9.8	8.9	16.7	D
26.6	16.9	8.0	BD

	B Stove	D Rate	BD
Main Effects	12.9	9.4	4.0
Error Variance	68.3		
Variance of Mean	51.2		
Stand. Deviation	8.3		
Signif. if > +-1	1.1	0.8	0.3
Signif. if > +-1	0.8	0.6	0.2
Signif. if > +-1	0.5	0.3	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORANTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8.2	34.1	-25.9	21.1	81.3	102.3	233.9	Total
60.2	60.2	0.0	60.2	21.0	131.6	-73.2	A
8.5	23.8	-15.4	16.1	25.3	27.8	20.7	C
5.1	4.7	0.4	4.9	106.3	-100.9	-100.5	AC
28.2	22.5	5.8	25.3	39.0	-60.2	29.3	D
0.0	0.0	0.0	0.0	-11.2	80.9	-128.7	AD
90.9	90.9	0.0	90.9	-25.3	-50.3	141.2	CD
20.9	9.8	11.1	15.3	-75.6	-50.3	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-18.3	-25.1	5.2	7.3	-32.2	35.3
Error Variance	106.3					
Variance of Mean	53.2					
Stand. Deviation	7.3					
(Signif. if > +-1)						
@90%CB,	-1.7	-2.3	0.5	0.7	-3.0	3.3
@95%CB,	-1.2	-1.7	0.4	0.5	-2.2	2.4
@99%CB,	-0.7	-1.0	0.2	0.3	-1.3	1.4

"YATES" table for stove and rate for FLUORANTHENE

MEAN VALUE	1	2	
7.5	28.7	71.0	Total
21.1	42.3	22.0	B
17.0	13.6	13.7	D
25.3	8.4	-5.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	11.0	6.8	-2.6
Error Variance	106.3		
Variance of Mean	79.7		
Stand. Deviation	10.3		
Signif. if > +-1	0.7	0.4	-0.2
Signif. if > +-1	0.5	0.3	-0.1
Signif. if > +-1	0.3	0.2	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
13.6	33.4	-19.8	23.5	108.4	132.4	283.5	Total
84.9	84.9	0.0	84.9	24.0	151.1	-65.7	A
11.4	25.5	-14.1	18.4	19.9	48.5	26.8	C
5.1	5.9	-0.8	5.5	131.2	-114.3	-148.7	AC
22.5	17.3	5.2	19.9	61.5	-84.4	18.7	D
0.0	0.0	0.0	0.0	-12.9	111.2	-162.8	AD
112.7	112.7	0.0	112.7	-19.9	-74.4	195.7	CD
27.7	9.1	18.6	18.4	-94.3	-74.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-16.4	-37.2	6.7	4.7	-40.7	48.9
Error Variance	96.4					
Variance of Mean	48.2					
Stand. Deviation	6.9					
(Signif. if > +-1)						
@90%CB,	-1.6	-3.6	0.7	0.5	-4.0	4.8
@95%CB,	-1.2	-2.7	0.5	0.3	-2.9	3.5
@99%CB,	-0.7	-1.6	0.3	0.2	-1.7	2.1

"YATES" table for stove and rate for PYRENE

MEAN VALUE	1	2	
7.2	30.7	68.7	Total
23.5	38.0	18.2	B
18.0	16.2	7.2	D
19.9	1.9	-14.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	9.1	3.6	-7.2
Error Variance	96.4		
Variance of Mean	72.3		
Stan'. Deviation	9.8		
Signif. if > +-1	0.6	0.2	-0.5
Signif. if > +-1	0.5	0.2	-0.4
Signif. if > +-1	0.3	0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
BENZO(a)ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
5.2	37.6	-32.4	21.4	76.3	105.7	215.7	Total
54.9	54.9	0.0	54.9	29.4	110.0	-79.8	A
13.8	36.2	-22.4	25.0	19.3	12.9	24.4	C
2.2	6.6	-4.4	4.4	90.6	-92.7	-108.1	AC
32.1	6.6	25.5	19.3	33.5	-46.9	4.2	D
0.0	0.0	0.0	0.0	-20.6	71.3	-105.7	AD
82.0	82.0	0.0	82.0	-19.3	-54.1	118.2	CD
14.0	3.2	10.7	8.6	-73.4	-54.1	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-19.9	-27.0	6.1	1.1	-26.4	29.6
Error Variance	233.6					
Variance of Mean	116.8					
Stand. Deviation	10.8					
(Signif. if > +-1)						
@90%CB,	-1.3	-1.7	0.4	0.1	-1.7	1.9
@95%CB,	-0.9	-1.2	0.3	0.0	-1.2	1.4
@99%CB,	-0.5	-0.7	0.2	0.0	-0.7	0.8

"YATES" table for stove and rate for
BENZO(a)ANTHRACENE

MEAN VALUE	1	2	
13.1	34.5	80.4	Total
21.4	45.9	1.1	B
26.5	8.3	11.3	D
19.3	-7.2	-15.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.6	5.7	-7.8
Error Variance	233.6		
Variance of Mean	175.2		
Stand. Deviation	15.3		
Signif. if > +-1	0.0	0.3	-0.3
Signif. if > +-1	0.0	0.2	-0.3
Signif. if > +-1	0.0	0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(e)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
20.8	15.3	5.5	18.1	42.2	56.1	100.4	Total
24.1	24.1	0.0	24.1	13.9	44.4	-44.9	A
4.0	22.6	-18.6	13.3	9.7	-6.7	-3.4	C
0.0	1.1	-1.1	0.6	34.6	-38.2	-37.5	AC
11.5	7.9	3.6	9.7	6.0	-28.3	-11.7	D
0.0	0.0	0.0	0.0	-12.7	24.9	-31.5	AD
31.5	31.5	0.0	31.5	-9.7	-18.7	53.2	CD
4.6	1.5	3.0	3.1	-28.5	-18.7	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-11.2	-9.4	-0.9	-2.9	-7.9	13.3
Error Variance	39.8					
Variance of Mean	19.9					
Stand. Deviation	4.5					
(Signif. if > +-1)						
@90%CB,	-1.7	-1.4	-0.1	-0.4	-1.2	2.0
@95%CB,	-1.2	-1.0	-0.1	-0.3	-0.9	1.5
@99%CB,	-0.7	-0.6	-0.1	-0.2	-0.5	0.9

"YATES" table for stove and rate for BENZO(e)PYRENE

MEAN VALUE	1	2	
5.6	23.7	34.4	Total
18.1	10.7	21.3	B
0.9	12.5	-13.0	D
9.7	8.8	-3.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	10.6	-6.5	-1.8
Error Variance	39.8		
Variance of Mean	29.9		
Stand. Deviation	6.3		
Signif. if > +-1	1.1	-0.7	-0.2
Signif. if > +-1	0.8	-0.5	-0.1
Signif. if > +-1	0.5	-0.3	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(b)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
15.3	7.0	8.3	11.2	29.7	36.0	64.0	Total
18.5	18.5	0.0	18.5	6.4	28.0	-21.3	A
1.9	10.0	-8.1	6.0	5.1	1.8	-5.6	C
0.0	0.8	-0.8	0.4	22.9	-23.1	-25.8	AC
6.0	4.2	1.9	5.1	7.3	-23.3	-8.1	D
0.0	0.0	0.0	0.0	-5.5	17.7	-24.9	AD
20.4	20.4	0.0	20.4	-5.1	-12.9	41.0	CD
3.6	1.2	2.4	2.4	-18.0	-12.9	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-5.3	-6.4	-1.4	-2.0	-6.2	10.3
Error Variance	14.5					
Variance of Mean	7.2					
Stand. Deviation	2.7					
(Signif. if > +-1)						
@90%CB,	-1.3	-1.6	-0.3	-0.5	-1.6	2.6
@95%CB,	-1.0	-1.2	-0.3	-0.4	-1.1	1.9
@99%CB,	-0.6	-0.7	-0.2	-0.2	-0.7	1.1

"YATES" table for stove and rate for BENZO(b)FLUORANTHE

MEAN VALUE	1	2	
0.9	12.1	21.6	Total
11.2	9.5	10.9	B
4.4	10.2	-2.6	D
5.1	0.7	-9.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	5.5	-1.3	-4.8
Error Variance	14.5		
Variance of Mean	10.9		
Stand. Deviation	3.8		
Signif. if > +-1	1.0	-0.2	-0.8
Signif. if > +-1	0.7	-0.2	-0.6
Signif. if > +-1	0.4	-0.1	-0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(k)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.1	2.7	-1.6	1.9	6.9	8.2	17.4	Total
5.1	5.1	0.0	5.1	1.2	9.2	-4.6	A
0.7	1.1	-0.4	0.9	1.7	2.7	0.0	C
0.4	0.3	0.0	0.3	7.5	-7.2	-7.5	AC
2.0	1.5	0.5	1.7	3.2	-5.7	1.1	D
0.0	0.0	0.0	0.0	-0.5	5.8	-9.9	AD
6.5	6.5	0.0	6.5	-1.7	-3.8	11.5	CD
1.5	0.5	1.0	1.0	-5.5	-3.8	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1.1	-1.9	0.0	0.3	-2.5	2.9
Error Variance	0.4					
Variance of Mean	0.2					
Stand. Deviation	0.5					
(Signif. if > +-1)						
@90%CB,	-1.7	-2.8	0.0	0.4	-3.7	4.3
@95%CB,	-1.3	-2.1	0.0	0.3	-2.7	3.2
@99%CB,	-0.8	-1.2	0.0	0.2	-1.6	1.9

"YATES" table for stove and rate for BENZO(k)FLUORANTHE

MEAN VALUE	1	2	
0.3	2.2	5.2	Total
1.9	3.0	2.0	B
1.3	1.5	0.8	D
1.7	0.4	-1.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.0	0.4	-0.6
Error Variance	0.4		
Variance of Mean	0.3		
Stand. Deviation	0.6		
Sigrif. if > +-1	1.1	0.4	-0.6
Signif. if > +-1	0.8	0.3	-0.4
Signif. if > +-1	0.5	0.2	-0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.7	7.7	-6.0	4.7	18.0	21.7	44.9	Total
13.3	13.3	0.0	13.3	3.7	23.2	-10.9	A
1.8	3.7	-2.0	2.8	3.6	6.8	1.7	C
0.8	1.1	-0.2	0.9	19.6	-17.6	-20.8	AC
4.2	3.0	1.2	3.6	8.6	-14.3	1.5	D
0.0	0.0	0.0	0.0	-1.8	15.9	-24.4	AD
16.8	16.8	0.0	16.8	-3.6	-10.4	30.2	CD
4.6	0.9	3.7	2.8	-14.0	-10.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-2.7	-5.2	0.4	0.4	-6.1	7.6
Error Variance	5.5					
Variance of Mean	2.7					
Stand. Deviation	1.7					
(Signif. if > +-1)						
@90%CB,	-1.1	-2.1	0.2	0.1	-2.5	3.1
@95%CB,	-0.8	-1.6	0.1	0.1	-1.8	2.3
@99%CB,	-0.5	-0.9	0.1	0.1	-1.1	1.4

"YATES" table for stove and rate for BENZO(a)PYRENE

MEAN VALUE	1	2	
0.8	5.5	12.0	Total
4.7	6.4	4.7	B
2.8	3.9	0.9	D
3.6	0.8	-3.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	2.3	0.4	-1.5
Error Variance	5.5		
Variance of Mean	4.1		
Stand. Deviation	2.3		
Signif. if > +-1	0.7	0.1	-0.4
Signif. if > +-1	0.5	0.1	-0.3
Signif. if > +-1	0.3	0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(g,h,i)PERYLE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	4.2	-4.2	2.1	2.1	7.3	42.4	Total
0.0	0.0	0.0	0.0	5.3	35.1	-17.7	A
1.1	8.8	-7.7	5.0	14.1	-6.7	10.0	C
0.0	0.6	-0.6	0.3	21.0	-11.0	-25.0	AC
5.1	3.3	1.8	4.2	-2.1	3.2	27.8	D
9.9	9.9	0.0	9.9	-4.7	6.8	-4.2	AD
18.8	18.8	0.0	18.8	5.7	-2.6	3.7	CD
2.7	1.5	1.2	2.1	-16.7	-22.4	-19.9	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-4.4	-6.3	2.5	6.9	-1.1	0.9
Error Variance	8.1					
Variance of Mean	4.0					
Stand. Deviation	2.0					
(Signif. if > +-1)						
@90%CB,	-1.5	-2.1	0.8	2.3	-0.4	0.3
@95%CB,	-1.1	-1.5	0.6	1.7	-0.3	0.2
@99%CB,	-0.7	-0.9	0.4	1.0	-0.2	0.1

"YATES" table for stove and rate for BENZO(g,h,i)PERYLE

MEAN VALUE	1	2	
1.7	3.8	10.1	Total
2.1	6.3	2.5	B
2.1	0.4	2.5	D
4.2	2.1	1.7	BD

	B Stove	D Rate	BD
Main Effects	1.2	1.3	0.9
Error Variance	8.1		
Variance of Mean	6.1		
Stand. Deviation	2.8		
Signif. if > +-1	0.3	0.3	0.2
Signif. if > +-1	0.2	0.2	0.1
Signif. if > +-1	0.1	0.1	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for DIBENZO(a,h)ANTHRA

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	1.0	-1.0	0.5	4.4	4.7	11.2	Total
3.9	3.9	0.0	3.9	0.3	6.5	-1.8	A
0.2	0.1	0.1	0.2	0.8	3.3	0.7	C
0.0	0.3	-0.3	0.1	5.6	-5.1	-6.8	AC
1.2	0.5	0.7	0.8	3.3	-4.1	1.7	D
0.0	0.0	0.0	0.0	1.0	4.8	-8.4	AD
4.9	4.9	0.0	4.9	-0.8	-3.4	8.8	CD
1.3	0.1	1.2	0.7	-4.2	-3.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.4	-1.7	0.2	0.4	-2.1	2.2
Error Variance	0.3					
Variance of Mean	0.1					
Stand. Deviation	0.4					
(Signif. if > +-1)						
@90%CB,	-0.8	-3.0	0.3	0.8	-3.7	3.9
@95%CB,	-0.6	-2.2	0.2	0.6	-2.7	2.8
@99%CB,	-0.3	-1.3	0.1	0.3	-1.6	1.7

"YATES" table for stove and rate for DIBENZO(a,h)ANTHRA

MEAN VALUE	1	2	
0.8	1.3	2.3	Total
0.5	1.0	0.5	B
0.1	-0.3	-0.4	D
0.8	0.7	1.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.2	-0.2	0.5
Error Variance	0.3		
Variance of Mean	0.2		
Stand. Deviation	0.5		
Signif. if > +-1	0.3	-0.2	0.6
Signif. if > +-1	0.2	-0.2	0.5
Signif. if > +-1	0.1	-0.1	0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOTAL GC/MS PAH

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
493.7	760.6	-266.9	627.1	977.6	2002.7	5530.9	Total
350.5	350.5	0.0	350.5	1025.1	3528.2	-3396.7	A
440.1	1149.9	-709.7	795.0	1133.5	-841.5	1308.8	C
143.9	316.2	-172.3	230.1	2394.8	-2555.2	-576.6	AC
1311.1	955.9	355.2	1133.5	-276.6	47.5	1525.6	D
0.0	0.0	0.0	0.0	-564.9	1261.3	-1713.8	AD
1908.3	1908.3	0.0	1908.3	-1133.5	-288.3	1213.9	CD
682.1	290.9	391.2	486.5	-1421.8	-288.3	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-849.2	-144.2	327.2	381.4	-428.4	303.5
Error Variance	88385.1					
Variance of Mean	44192.6					
Stand. Deviation	210.2					
(Signif. if > +-1)						
@90%CB,	-2.7	-0.5	1.1	1.2	-1.4	1.0
@95%CB,	-2.0	-0.3	0.8	0.9	-1.0	0.7
@99%CB,	-1.2	-0.2	0.5	0.5	-0.6	0.4

"YATES" table for stove and rate for TOTAL GC/MS PAH

MEAN VALUE	1	2	
291.3	918.4	2656.4	Total
627.1	1738.1	864.7	B
604.6	335.8	819.7	D
1133.5	528.9	193.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	432.4	409.9	96.5
Error Variance	88385.1		
Variance of Mean	66288.8		
Stand. Deviation	297.3		
Signif. if > +-1	1.0	0.9	0.2
Signif. if > +-1	0.7	0.7	0.2
Signif. if > +-1	0.4	0.4	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for NAPHTHALENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
67.0	196.2	-129.2	131.6	177.3	422.6	964.2	Total
45.7	45.7	0.0	45.7	245.3	541.6	-575.1	A
114.1	262.5	-148.4	188.3	156.2	-217.3	297.4	C
43.0	70.9	-27.9	57.0	385.5	-357.8	-90.9	AC
185.0	127.3	57.7	156.2	-85.9	68.0	119.0	D
0.0	0.0	0.0	0.0	-131.4	229.3	-140.4	AD
293.5	293.5	0.0	293.5	-156.2	-45.4	161.3	CD
114.8	69.1	45.8	91.9	-201.6	-45.4	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-143.8	-22.7	74.3	29.8	-35.1	40.3
Error Variance	4492.1					
Variance of Mean	2246.0					
Stand. Deviation	47.4					
(Signif. if > +-1)						
@90%CB,	-2.1	-0.3	1.1	0.4	-0.5	0.6
@95%CB,	-1.5	-0.2	0.8	0.3	-0.4	0.4
@99%CB,	-0.9	-0.1	0.5	0.2	-0.2	0.3

"YATES" table for stove and rate for NAPHTHALENE

MEAN VALUE	1	2	
98.2	229.8	547.2	Total
131.6	317.4	28.3	B
161.3	33.4	87.6	D
156.2	-5.1	-38.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.2	43.8	-19.3
Error Variance	4492.1		
Variance of Mean	3369.1		
Stand. Deviation	67.0		
Signif. if > +-1	0.1	0.4	-0.2
Signif. if > +-1	0.1	0.3	-0.1
Signif. if > +-1	0.1	0.2	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
16.8	16.2	0.6	16.5	36.5	57.8	98.7	Total
20.0	20.0	0.0	20.0	21.3	40.9	-24.9	A
5.4	17.5	-12.0	11.4	10.8	1.8	4.0	C
7.0	12.6	-5.5	9.8	30.1	-26.7	-10.1	AC
13.1	8.6	4.5	10.8	3.4	-15.2	-16.8	D
0.0	0.0	0.0	0.0	-1.6	19.3	-28.5	AD
23.0	23.0	0.0	23.0	-10.8	-5.0	34.5	CD
8.2	6.0	2.2	7.1	-15.9	-5.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-6.2	-2.5	1.0	-4.2	-7.1	8.6
Error Variance	20.1					
Variance of Mean	10.0					
Stand. Deviation	3.2					
(Signif. if > +-1)						
@90%CB,	-1.3	-0.5	0.2	-0.9	-1.5	1.8
@95%CB,	-1.0	-0.4	0.2	-0.7	-1.1	1.4
@99%CB,	-0.6	-0.2	0.1	-0.4	-0.7	0.8

"YATES" table for stove and rate for FLUORENE

MEAN VALUE	1	2	
7.1	23.7	38.8	Total
16.5	15.1	16.0	B
4.3	9.4	-8.5	D
10.8	6.5	-2.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	8.0	-4.3	-1.4
Error Variance	20.1		
Variance of Mean	13.0		
Stand. Deviation	4.5		
Signif. if > +-1	1.2	-0.6	-0.2
Signif. if > +-1	0.9	-0.5	-0.2
Signif. if > +-1	0.5	-0.3	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PHENANTHRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
34.3	75.3	-41.0	54.8	148.5	207.0	367.4	Total
93.7	93.7	0.0	93.7	58.5	160.4	-105.1	A
17.8	63.9	-46.1	40.9	29.3	15.7	11.8	C
15.0	20.3	-5.3	17.6	131.1	-120.8	-124.5	AC
35.9	22.6	13.3	29.3	39.0	-90.0	-46.6	D
0.0	0.0	0.0	0.0	-23.3	101.9	-136.5	AD
111.3	111.3	0.0	111.3	-29.3	-62.2	191.9	CD
25.7	13.9	11.8	19.8	-91.5	-62.2	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-26.3	-31.1	3.0	-11.6	-34.1	48.0
Error Variance	415.2					
Variance of Mean	207.6					
Stand. Deviation	14.4					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.5	0.1	-0.5	-1.6	2.3
@95%CB,	-0.9	-1.1	0.1	-0.4	-1.2	1.7
@99%CB,	-0.5	-0.6	0.1	-0.2	-0.7	1.0

"YATES" table for stove and rate for PHENANTHRENE

MEAN VALUE	1	2	
24.3	79.1	145.3	Total
54.[illegible]	66.2	22.7	B
[illegible]	30.4	-12.8	D
[illegible].3	-7.7	-38.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	11.4	-6.4	-19.1
Error Variance	415.2		
Variance of Mean	311.4		
Stand. Deviation	20.4		
Signif. if > +-1	0.4	-0.2	-0.6
Signif. if > +-1	0.3	-0.2	-0.5
Signif. if > +-1	0.2	-0.1	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
6.6	11.5	-5.0	9.0	21.2	29.4	57.8	Total
12.2	12.2	0.0	12.2	8.2	28.4	-23.8	A
3.3	8.4	-5.1	5.8	8.5	-0.3	-1.5	C
1.9	2.8	-0.9	2.4	20.0	-23.5	-13.2	AC
5.0	11.9	-7.0	8.5	3.1	-13.0	-1.0	D
0.0	0.0	0.0	0.0	-3.5	11.5	-23.2	AD
17.5	17.5	0.0	17.5	-8.5	-6.6	24.6	CD
3.0	1.9	1.1	2.5	-15.1	-6.6	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-6.0	-3.3	-0.4	-0.3	-5.8	6.1
Error Variance	10.2					
Variance of Mean	5.1					
Stand. Deviation	2.3					
(Signif. if > +-1)						
@90%CB,	-1.8	-1.0	-0.1	-0.1	-1.7	1.8
@95%CB,	-1.3	-0.7	-0.1	-0.1	-1.3	1.4
@99%CB,	-0.8	-0.4	-0.1	-0.0	-0.8	0.8

"YATES" table for stove and rate for ANTHRACENE

MEAN VALUE	1	2	
3.3	12.4	25.9	Total
9.0	13.5	9.1	B
5.0	5.7	1.1	D
8.5	3.4	-2.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	4.6	0.6	-1.2
Error Variance	10.2		
Variance of Mean	7.6		
Stand. Deviation	3.2		
Signif. if > +-1	1.0	0.1	-0.2
Signif. if > +-1	0.7	0.1	-0.2
Signif. if > +-1	0.4	0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FLUORANTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
6.9	20.9	-14.0	13.9	38.7	52.1	97.6	Total
24.7	24.7	0.0	24.7	13.4	45.5	-27.9	A
5.1	14.3	-9.2	9.7	8.0	4.8	4.3	C
3.8	3.7	0.1	3.7	37.5	-32.8	-33.5	AC
8.9	7.2	1.7	8.0	10.8	-25.2	-6.5	D
0.0	0.0	0.0	0.0	-6.0	29.5	-37.6	AD
31.1	31.1	0.0	31.1	-8.0	-16.8	54.7	CD
8.1	4.7	3.4	6.4	-24.8	-16.8	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-7.0	-8.4	1.1	-1.6	-9.4	13.7
Error Variance	29.4					
Variance of Mean	14.7					
Stand. Deviation	3.8					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.5	0.2	-0.3	-1.7	2.4
@95%CB,	-0.9	-1.1	0.1	-0.2	-1.2	1.8
@99%CB,	-0.5	-0.6	0.1	-0.1	-0.7	1.1

"YATES" table for stove and rate for FLUORANTHENE

MEAN VALUE	1	2	
5.7	19.6	36.3	Total
13.9	16.8	7.5	B
8.7	8.3	-2.8	D
8.0	-0.7	-9.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	3.8	-1.4	-4.5
Error Variance	29.4		
Variance of Mean	22.0		
Stand. Deviation	5.4		
Signif. if > +-1	0.5	-0.2	-0.6
Signif. if > +-1	0.3	-0.1	-0.4
Signif. if > +-1	0.2	-0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.5	20.5	-8.9	16.0	49.9	65.2	117.6	Total
33.9	33.9	0.0	33.9	15.3	52.5	-26.3	A
6.9	15.3	-8.4	11.1	[illegible]	11.1	5.2	C
3.8	4.6	-0.9	4.2	46.1	-37.4	-49.5	AC
7.1	5.5	1.6	6.3	17.9	-34.6	-12.7	D
0.0	0.0	0.0	0.0	-6.8	39.8	-48.5	AD
38.6	38.6	0.0	38.6	-6.3	-24.8	74.5	CD
10.7	4.4	6.3	7.5	-31.1	-24.8	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-6.6	-12.4	1.3	-3.2	-12.1	18.6
Error Variance	19.4					
Variance of Mean	9.7					
Stand. Deviation	3.1					
(Signif. if > +-1)						
@90%CB,	-1.4	-2.7	0.3	-0.7	-2.6	4.0
@95%CB,	-1.0	-2.0	0.2	-0.5	-1.9	3.0
@99%CB,	-0.6	-1.2	0.1	-0.3	-1.2	1.8

"YATES" table for stove and rate for PYRENE

MEAN VALUE	1	2	
5.4	21.4	37.0	Total
16.0	15.6	7.6	B
9.3	10.6	-5.8	D
6.3	-3.0	-13.5	BD

	B Stove	D Rate	BD
Main Effects	3.8	-2.9	-6.8
Error Variance	19.4		
Variance of Mean	14.6		
Stand. Deviation	4.4		
Signif. if > +-1	0.6	-0.4	-1.0
Signif. if > +-1	0.4	-0.3	-0.8
Signif. if > +-1	0.3	-0.2	-0.5

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)ANTHRACENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
4.4	23.1	-18.7	13.7	34.4	52.8	90.5	Total
20.7	20.7	0.0	20.7	18.4	37.7	-35.3	A
8.3	21.7	-13.4	15.0	6.1	-4.6	9.4	C
1.7	5.2	-3.5	3.4	31.6	-30.7	-37.0	AC
10.1	2.1	8.0	6.1	6.9	-16.0	-15.2	D
0.0	0.0	0.0	0.0	-11.6	25.5	-26.1	AD
28.1	28.1	0.0	28.1	-6.1	-18.5	41.5	CD
5.4	1.6	3.9	3.5	-24.6	-18.5	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-8.8	-9.3	2.4	-3.8	-6.5	10.4
Error Variance	61.8					
Variance of Mean	30.9					
Stand. Deviation	5.6					
(Signif. if > +-1)						
@90%CB,	-1.1	-1.1	0.3	-0.5	-0.8	1.3
@95%CB,	-0.8	-0.8	0.2	-0.3	-0.6	0.9
@99%CB,	-0.5	-0.5	0.1	-0.2	-0.3	0.6

"YATES" table for stove and rate for BENZO(a)ANTHRACENE

MEAN VALUE	1	2	
9.9	23.6	43.4	Total
13.7	19.8	-3.7	B
13.7	3.9	-3.8	D
6.1	-7.6	-11.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-1.8	-1.9	-5.7
Error Variance	61.8		
Variance of Mean	46.3		
Stand. Deviation	7.9		
Signif. if > +-1	-0.2	-0.2	-0.5
Signif. if > +-1	-0.1	-0.1	-0.4
Signif. if > +-1	-0.1	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(e)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
17.6	9.4	8.2	13.5	26.0	34.4	49.6	Total
12.5	12.5	0.0	12.5	8.4	15.1	-21.2	A
2.4	13.5	-11.1	8.0	3.1	-8.6	-8.6	C
0.0	0.9	-0.9	0.4	12.1	-12.6	-12.9	AC
3.6	2.5	1.1	3.1	-1.1	-17.6	-19.3	D
0.0	0.0	0.0	0.0	-7.5	9.0	-4.0	AD
10.8	10.8	0.0	10.8	-3.1	-6.5	26.6	CD
1.8	0.7	1.0	1.3	-9.5	-6.5	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-5.3	-3.2	-2.1	-4.8	-1.0	6.6
Error Variance	19.4					
Variance of Mean	9.7					
Stand. Deviation	3.1					
(Signif. if > +-1)						
@90%CB,	-1.2	-0.7	-0.5	-1.0	-0.2	1.4
@95%CB,	-0.8	-0.5	-0.3	-0.8	-0.2	1.1
@99%CB,	-0.5	-0.3	-0.2	-0.5	-0.1	0.6

"YATES" table for stove and rate for BENZO(e)PYRENE

MEAN VALUE	1	2	
6.6	20.1	29.4	Total
13.5	9.3	3.9	B
6.2	7.0	-10.9	D
3.1	-3.1	-10.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.9	-5.4	-5.0
Error Variance	19.4		
Variance of Mean	14.6		
Stand. Deviation	4.4		
Signif. if > +-1	0.3	-0.8	-0.8
Signif. if > +-1	0.2	-0.6	-0.6
Signif. if > +-1	0.1	-0.4	-0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(b)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
13.0	4.3	8.7	8.6	18.4	22.3	31.9	Total
9.8	9.8	0.0	9.8	3.9	9.6	-9.7	A
1.1	6.0	-4.9	3.6	1.6	-2.1	-8.1	C
0.0	0.6	-0.6	0.3	8.0	-7.6	-8.8	AC
1.9	1.3	0.6	1.6	1.1	-14.5	-12.7	D
0.0	0.0	0.0	0.0	-3.2	6.4	-5.5	AD
7.0	7.0	0.0	7.0	-1.6	-4.4	20.9	CD
1.4	0.6	0.8	1.0	-6.0	-4.4	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-2.4	-2.2	-2.0	-3.2	-1.4	5.2
Error Variance	10.0					
Variance of Mean	5.0					
Stand. Deviation	2.2					
(Signif. if > +-1)						
@90%CB,	-0.7	-0.7	-0.6	-1.0	-0.4	1.6
@95%CB,	-0.5	-0.5	-0.5	-0.7	-0.3	1.2
@99%CB,	-0.3	-0.3	-0.3	-0.4	-0.2	0.7

"YATES" table for stove and rate for BENZO(b)FLUORANTHE

MEAN VALUE	1	2	
6.6	15.2	23.0	Total
8.6	7.8	-2.5	B
6.2	2.1	-7.4	D
1.6	-4.6	-6.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	-1.2	-3.7	-3.3
Error Variance	10.0		
Variance of Mean	7.5		
Stand. Deviation	3.2		
Signif. if > +-1	-0.3	-0.8	-0.7
Signif. if > +-1	-0.2	-0.6	-0.5
Signif. if > +-1	-0.1	-0.3	-0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(k)FLUORANTHE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.9	1.6	-0.7	1.3	3.5	4.3	7.5	Total
2.3	2.3	0.0	2.3	0.8	3.2	-1.6	A
0.4	0.7	-0.3	0.5	0.5	0.7	-0.7	C
0.3	0.3	0.0	0.3	2.6	-2.4	-2.5	AC
0.6	0.5	0.2	0.5	1.0	-2.7	-1.1	D
0.0	0.0	0.0	0.0	-0.3	2.1	-3.1	AD
2.2	2.2	0.0	2.2	-0.5	-1.3	4.8	CD
0.6	0.2	0.3	0.4	-1.8	-1.3	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.4	-0.6	-0.2	-0.3	-0.8	1.2
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-1.4	-2.2	-0.6	-1.0	-2.7	4.2
@95%CB,	-1.1	-1.6	-0.4	-0.7	-2.0	3.1
@99%CB,	-0.6	-1.0	-0.3	-0.4	-1.2	1.9

"YATES" table for stove and rate for BENZO(k)FLUORANTHE

MEAN VALUE	1	2	
6.6	7.8	14.6	Total
1.3	6.7	-10.9	B
6.2	-5.3	-1.1	D
0.5	-5.6	-0.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	-5.5	-0.6	-0.2
Error Variance	0.1		
Variance of Mean	0.1		
Stand. Deviation	0.3		
Signif. if > +-1	-13.5	-1.4	-0.4
Signif. if > +-1	-9.9	-1.0	-0.3
Signif. if > +-1	-5.9	-0.6	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(a)PYRENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.5	4.7	-3.2	3.1	8.7	11.1	19.1	Total
5.6	5.6	0.0	5.6	2.4	8.0	-4.2	A
1.1	2.2	-1.2	1.7	1.1	1.6	-0.6	C
0.6	0.8	-0.2	0.7	6.9	-5.8	-7.0	AC
1.3	1.0	0.4	1.1	2.6	-6.4	-3.1	D
0.0	0.0	0.0	0.0	-0.9	5.7	-7.4	AD
5.8	5.8	0.0	5.8	-1.1	-3.5	12.1	CD
1.8	0.4	1.3	1.1	-4.6	-3.5	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1.0	-1.8	-0.2	-0.8	-1.8	3.0
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	-0.8	-1.4	-0.1	-0.6	-1.5	2.5
@95%CB,	-0.6	-1.0	-0.1	-0.5	-1.1	1.8
@99%CB,	-0.4	-0.6	-0.1	-0.3	-0.7	1.1

"YATES" table for stove and rate for BENZO(a)PYRENE

MEAN VALUE	1	2	
6.6	9.7	17.0	Total
3.1	7.3	-8.5	B
6.2	-3.5	-2.4	D
1.1	-5.0	-1.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-4.3	-1.2	-0.8
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	-2.4	-0.7	-0.4
Signif. if > +-1	-1.8	-0.5	-0.3
Signif. if > +-1	-1.1	-0.3	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZO(g,h,i)PERYLE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	2.6	-2.6	1.3	1.3	4.5	15.9	Total
0.0	0.0	0.0	0.0	3.2	11.4	-8.1	A
0.7	5.3	-4.6	3.0	4.1	-4.0	5.2	C
0.0	0.5	-0.5	0.2	7.3	-4.1	-8.5	AC
1.6	1.1	0.5	1.3	-1.3	1.9	7.0	D
2.8	2.8	0.0	2.8	-2.7	3.2	-0.1	AD
6.5	6.5	0.0	6.5	1.4	-1.5	1.3	CD
1.0	0.7	0.3	0.9	-5.6	-7.0	-5.5	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-2.0	-2.1	1.3	1.7	-0.0	0.3
Error Variance	2.8					
Variance of Mean	1.4					
Stand. Deviation	1.2					
(Signif. if > +-1)						
@90%CB,	-1.2	-1.2	0.7	1.0	-0.0	0.2
@95%CB,	-0.9	-0.9	0.5	0.7	-0.0	0.1
@99%CB,	-0.5	-0.5	0.3	0.4	-0.0	0.1

"YATES" table for stove and rate for BENZO(g,h,i)PERYLE

MEAN VALUE	1	2	
6.6	7.9	15.4	Total
1.3	7.5	-10.1	B
6.2	-5.3	-0.4	D
1.3	-4.8	0.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-5.1	-0.2	0.2
Error Variance	2.8		
Variance of Mean	2.1		
Stand. Deviation	1.7		
Signif. if > +-1	-2.0	-0.1	0.1
Signif. if > +-1	-1.5	-0.1	0.1
Signif. if > +-1	-0.9	-0.0	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for DIBENZO(a,h)ANTHRA

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.6	-0.6	0.3	1.8	2.0	4.2	Total
1.5	1.5	0.0	1.5	0.2	2.2	-0.5	A
0.1	0.1	0.1	0.1	0.3	1.1	0.1	C
0.0	0.2	-0.2	0.1	2.0	-1.7	-2.3	AC
0.4	0.2	0.2	0.3	1.2	-1.6	0.2	D
0.0	0.0	0.0	0.0	-0.0	1.7	-2.8	AD
1.7	1.7	0.0	1.7	-0.3	-1.2	3.3	CD
0.5	0.0	0.4	0.3	-1.4	-1.2	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.1	-0.6	0.0	0.1	-0.7	0.8
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-0.5	-2.1	0.1	0.2	-2.6	2.9
@95%CB,	-0.4	-1.5	0.1	0.1	-1.9	2.2
@99%CB,	-0.2	-0.9	0.0	0.1	-1.1	1.3

"YATES" table for stove and rate for DIBENZO(a,h)ANTHRA

MEAN VALUE	1	2	
6.6	6.9	13.3	Total
0.3	6.4	-12.2	B
6.2	-6.3	-0.5	D
0.3	-5.9	0.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	-6.1	-0.2	0.2
Error Variance	0.1		
Variance of Mean	0.1		
Stand. Deviation	0.3		
Signif. if > +-1	-15.6	-0.6	0.5
Signif. if > +-1	-11.4	-0.4	0.3
Signif. if > +-1	-6.8	-0.3	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL GC/MS PAH

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
418.4	466.6	-48.2	442.5	678.9	1332.5	2545.7	Total
236.4	236.4	0.0	236.4	653.7	1213.1	-1316.7	A
265.1	688.5	-423.4	476.8	358.4	-506.1	471.3	C
106.6	247.1	-140.4	176.8	-54.8	-810.6	-187.8	AC
412.3	304.4	107.9	358.4	-206.1	-25.2	-119.4	D
0.0	0.0	0.0	0.0	-300.0	496.4	-304.5	AD
653.5	653.5	0.0	653.5	-358.4	-93.9	521.6	CD
263.4	139.2	124.2	201.3	-452.2	-93.9	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-329.2	-46.9	117.8	-29.8	-76.1	130.4
Error Variance	22837.4					
Variance of Mean	11418.7					
Stand. Deviation	106.9					
(Signif. if > +-1)						
@90%CB,	-2.1	-0.3	0.7	-0.2	-0.5	0.8
@95%CB,	-1.5	-0.2	0.5	-0.1	-0.4	0.6
@99%CB,	-0.9	-0.1	0.3	-0.1	-0.2	0.4

"YATES" table for stove and rate for
TOTAL GC/MS PAH

MEAN VALUE	1	2	
6.6	449.1	813.6	Total
442.5	364.5	788.1	B
6.2	435.9	-84.5	D
358.4	352.2	-83.7	BD

	B Stove	D Rate	BD
Main Effects	394.0	-42.3	-41.9
Error Variance	22837.4		
Variance of Mean	17128.1		
Stand. Deviation	151.1		
Signif. if > +-1	1.8	-0.2	-0.2
Signif. if > +-1	1.3	-0.1	-0.1
Signif. if > +-1	0.8	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Al ALUMINUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
790.8	44.8	745.9	417.8	1016.1	1475.2	3986.8	Total
598.3	598.3	0.0	598.3	459.1	2511.6	829.2	A
35.9	242.8	-206.8	139.3	2177.8	360.9	-2401.0	C
59.7	579.9	-520.1	319.8	333.8	468.3	0.0	AC
552.6	1391.0	-838.4	971.8	180.4	-556.9	1036.4	D
1206.0	1206.0	0.0	1206.0	180.4	-1844.1	107.4	AD
49.8	49.8	0.0	49.8	234.2	0.0	-1287.1	CD
460.0	107.9	352.1	284.0	234.2	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	207.3	0.0	-600.2	259.1	26.9	-321.8
Error Variance	169662.1					
Variance of Mean	84831.1					
Stand. Deviation	291.3					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-1.4	0.6	0.1	-0.7
@95%CB,	0.4	0.0	-1.0	0.4	0.0	-0.5
@99%CB,	0.2	0.0	-0.6	0.3	0.0	-0.3

"YATES" table for stove and rate for
Al ALUMINUM

MEAN VALUE	1	2	
0.0	417.8	1474.6	Total
417.8	1056.7	1304.7	B
84.9	417.8	638.9	D
971.8	886.9	469.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	652.4	319.5	234.6
Error Variance	169662.1		
Variance of Mean	127246.6		
Stand. Deviation	411.9		
Signif. if > +-1	1.1	0.5	0.4
Signif. if > +-1	0.8	0.4	0.3
Signif. if > +-1	0.5	0.2	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
K POTASSIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
2019.2	440.3	1578.9	1229.8	4502.9	8380.7	17949.6	Total
3273.1	3273.1	0.0	3273.1	3877.9	9568.9	9589.7	A
315.4	1519.1	-1203.7	917.3	5366.1	4086.7	-1788.3	C
2585.4	3535.8	-1150.4	2960.6	4202.8	5503.0	0.0	AC
1666.1	948.4	717.7	1307.3	2043.4	-625.0	1188.2	D
4058.8	4058.8	0.0	4058.8	2043.4	-1163.3	1416.3	AD
725.6	725.6	0.0	725.6	2751.5	0.0	-538.3	CD
4153.3	2801.0	1352.4	3477.2	2751.5	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	2397.4	0.0	-447.1	297.0	354.1	-134.6
Error Variance	760944.3					
Variance of Mean	380472.1					
Stand. Deviation	616.8					
(Signif. if > +-1)						
@90%CB,	2.6	0.0	-0.5	0.3	0.4	-0.1
@95%CB,	1.9	0.0	-0.4	0.2	0.3	-0.1
@99%CB,	1.2	0.0	-0.2	0.1	0.2	-0.1

"YATES" table for stove and rate for
K POTASSIUM

MEAN VALUE	1	2	
341.9	1571.7	3449.8	Total
1229.8	1878.1	1624.3	B
570.8	887.8	306.4	D
1307.3	736.5	-151.4	BD

	B Stove	D Rate	BD
Main Effects	812.2	153.2	-75.7
Error Variance	760944.3		
Variance of Mean	570708.2		
Stand. Deviation	872.3		
Signif. if > +-1	0.6	0.1	-0.1
Signif. if > +-1	0.5	0.1	-0.0
Signif. if > +-1	0.3	0.1	-0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Mg MAGNESIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
315.8	0.0	315.8	157.9	387.3	525.7	996.4	Total
229.4	229.4	0.0	229.4	138.4	470.7	283.9	A
8.0	58.9	-50.9	33.4	371.8	143.0	-521.9	C
16.6	193.3	-176.7	104.9	98.9	140.9	0.0	AC
214.5	86.9	127.5	150.7	71.5	-249.0	-55.0	D
221.1	221.1	0.0	221.1	71.5	-272.9	-2.2	AD
14.2	14.2	0.0	14.2	70.4	0.0	-24.0	CD
133.3	36.0	97.4	84.7	70.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	71.0	0.0	-130.5	-13.7	-0.5	-6.0
Error Variance	15928.7					
Variance of Mean	7964.4					
Stand. Deviation	89.2					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-1.0	-0.1	-0.0	-0.0
@95%CB,	0.4	0.0	-0.7	-0.1	-0.0	-0.0
@99%CB,	0.2	0.0	-0.4	-0.0	-0.0	-0.0

"YATES" table for stove and rate for
Mg MAGNESIUM

MEAN VALUE	1	2	
8.8	166.7	317.4	Total
157.9	150.7	299.8	B
0.0	149.1	-16.0	D
150.7	150.7	1.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	149.9	-8.0	0.8
Error Variance	15928.7		
Variance of Mean	11946.5		
Stand. Deviation	126.2		
Signif. if > +-1	0.8	-0.0	0.0
Signif. if > +-1	0.6	-0.0	0.0
Signif. if > +-1	0.4	-0.0	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ni NICKEL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.0	1.8	14.2	Total
0.0	0.0	0.0	0.0	1.8	12.4	-3.7	A
0.0	3.7	-3.7	1.8	5.3	-1.8	3.7	C
0.0	0.0	0.0	0.0	7.1	-1.8	-14.2	AC
0.0	0.0	0.0	0.0	0.0	1.8	10.6	D
5.3	5.3	0.0	5.3	-1.8	1.8	0.0	AD
7.1	7.1	0.0	7.1	5.3	-1.8	-0.0	CD
0.0	0.0	0.0	0.0	-7.1	-12.4	-10.6	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-0.9	-3.6	0.9	2.6	0.0	-0.0
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	-0.8	-2.9	0.8	2.2	0.0	-0.0
@95%CB,	-0.6	-2.1	0.6	1.6	0.0	-0.0
@99%CB,	-0.3	-1.3	0.3	1.0	0.0	-0.0

"YATES" table for stove and rate for
Ni NICKEL

MEAN VALUE	1	2	
0.0	0.0	0.0	Total
0.0	0.0	0.0	B
0.0	0.0	0.0	D
0.0	0.0	0.0	BD

	B Stove	D Rate	BD
Main Effects	0.0	0.0	0.0
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PO4PHOSPHOROUS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
57.2	16.3	40.9	36.8	92.6	130.1	249.6	Total
55.8	55.8	0.0	55.8	37.5	119.6	117.2	A
0.0	18.4	-18.4	9.2	80.1	38.2	-95.7	C
19.9	36.7	-16.8	28.3	39.5	79.0	-0.0	AC
24.7	15.8	8.9	20.3	19.1	-55.1	-10.5	D
59.8	59.8	0.0	59.8	19.1	-40.6	40.9	AD
0.0	0.0	0.0	0.0	39.5	0.0	14.6	CD
53.3	25.7	27.6	39.5	39.5	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	29.3	-0.0	-23.9	-2.6	10.2	3.6
Error Variance	313.4					
Variance of Mean	156.7					
Stand. Deviation	12.5					
(Signif. if > +-1)						
@90%CB,	1.6	-0.0	-1.3	-0.1	0.6	0.2
@95%CB,	1.2	-0.0	-0.9	-0.1	0.4	0.1
@99%CB,	0.7	-0.0	-0.6	-0.1	0.2	0.1

"YATES" table for stove and rate for PO4PHOSPHOROUS

MEAN VALUE	1	2	
43.8	80.6	119.7	Total
36.8	39.1	-5.7	B
18.9	-7.1	-41.4	D
20.3	1.4	8.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	-2.8	-20.7	4.2
Error Variance	313.4		
Variance of Mean	235.1		
Stand. Deviation	17.7		
Signif. if > +-1	-0.1	-0.8	0.2
Signif. if > +-1	-0.1	-0.6	0.1
Signif. if > +-1	-0.0	-0.3	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Pb LEAD

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	5.0	10.0	21.8	Total
5.0	5.0	0.0	5.0	5.0	11.8	21.8	A
0.0	0.0	0.0	0.0	5.9	10.0	0.0	C
3.3	6.7	-3.3	5.0	5.9	11.8	0.0	AC
0.0	0.0	0.0	0.0	5.0	0.0	1.8	D
5.9	5.9	0.0	5.9	5.0	0.0	1.8	AD
0.0	0.0	0.0	0.0	5.9	0.0	0.0	CD
6.7	5.1	1.5	5.9	5.9	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	5.4	0.0	0.0	0.5	0.5	0.0
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	4.5	0.0	0.0	0.4	0.4	0.0
@95%CB,	3.3	0.0	0.0	0.3	0.3	0.0
@99%CB,	2.0	0.0	0.0	0.2	0.2	0.0

"YATES" table for stove and rate for Pb LEAD

MEAN VALUE	1	2	
14.6	14.6	19.3	Total
0.0	4.7	-19.3	B
4.7	-14.6	-9.9	D
0.0	-4.7	9.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	-9.7	-4.9	4.9
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	-5.6	-2.9	2.9
Signif. if > +-1	-4.1	-2.1	2.1
Signif. if > +-1	-2.5	-1.3	1.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Sn TIN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.9	0.0	19.9	9.9	36.5	53.2	61.4	Total
26.6	26.6	0.0	26.6	16.6	8.2	33.3	A
0.0	0.0	0.0	0.0	8.2	33.3	-28.1	C
6.6	26.7	-20.0	16.6	0.0	-0.0	-0.0	AC
8.2	0.0	8.2	4.1	16.6	-19.9	-44.9	D
4.1	4.1	0.0	4.1	16.6	-8.2	-33.3	AD
0.0	0.0	0.0	0.0	-0.0	-0.0	11.6	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	8.3	-0.0	-7.0	-11.2	-8.3	2.9
Error Variance	86.5					
Variance of Mean	43.2					
Stand. Deviation	6.6					
(Signif. if > +-1)						
@90%CB,	0.9	-0.0	-0.7	-1.2	-0.9	0.3
@95%CB,	0.6	-0.0	-0.5	-0.8	-0.6	0.2
@99%CB,	0.4	-0.0	-0.3	-0.5	-0.4	0.1

"YATES" table for stove and rate for
Sn TIN

MEAN VALUE	1	2	
0.0	9.9	14.1	Total
9.9	4.1	14.1	B
0.0	9.9	-5.8	D
4.1	4.1	-5.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	7.0	-2.9	-2.9
Error Variance	86.5		
Variance of Mean	64.9		
Stand. Deviation	9.3		
Signif. if > +-1	0.5	-0.2	-0.2
Signif. if > +-1	0.4	-0.2	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Al ALUMINUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8.8	0.5	8.2	4.6	12.3	18.4	65.3	Total
7.7	7.7	0.0	7.7	6.0	47.0	14.6	A
0.4	2.6	-2.2	1.5	40.7	6.1	-40.7	C
0.9	8.1	-7.2	4.5	6.3	8.5	0.0	AC
10.5	25.9	-15.5	18.2	3.0	-6.3	28.6	D
22.5	22.5	0.0	22.5	3.0	-34.4	2.5	AD
1.0	1.0	0.0	1.0	4.3	-0.0	-28.1	CD
8.7	1.9	6.8	5.3	4.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	3.6	0.0	-10.2	7.2	0.6	-7.0
Error Variance	41.0					
Variance of Mean	20.5					
Stand. Deviation	4.5					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-1.5	1.1	0.1	-1.1
@95%CB,	0.4	0.0	-1.1	0.8	0.1	-0.8
@99%CB,	0.2	0.0	-0.7	0.5	0.0	-0.5

"YATES" table for stove and rate for
Al ALUMINUM

MEAN VALUE	1	2	
0.0	4.6	24.0	Total
4.6	19.4	21.7	B
1.1	4.6	14.7	D
18.2	17.1	12.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	10.9	7.4	6.2
Error Variance	41.0		
Variance of Mean	30.7		
Stand. Deviation	6.4		
Signif. if > +-1	1.2	0.8	0.7
Signif. if > +-1	0.8	0.6	0.5
Signif. if > +-1	0.5	0.3	0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ca CALCIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
14.4	0.6	13.8	7.5	19.1	28.5	70.0	Total
11.6	11.6	0.0	11.6	9.4	41.5	21.6	A
0.4	4.8	-4.4	2.6	30.0	8.3	-28.2	C
2.0	11.5	-9.5	6.8	11.5	13.3	0.0	AC
16.3	7.1	9.2	11.7	4.2	-9.7	13.0	D
18.3	18.3	0.0	18.3	4.2	-18.5	4.9	AD
2.4	2.4	0.0	2.4	6.6	0.0	-8.8	CD
12.0	6.2	5.7	9.1	6.6	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	5.4	0.0	-7.0	3.3	1.2	-2.2
Error Variance	41.6					
Variance of Mean	20.8					
Stand. Deviation	4.6					
(Signif. if > +-1)						
@90%CB,	0.8	0.0	-1.0	0.5	0.2	-0.3
@95%CB,	0.6	0.0	-0.8	0.4	0.1	-0.2
@99%CB,	0.4	0.0	-0.5	0.2	0.1	-0.1

"YATES" table for stove and rate for
Ca CALCIUM

MEAN VALUE	1	2	
2.5	10.0	24.1	Total
7.5	14.1	14.2	B
2.4	4.9	4.1	D
11.7	9.3	4.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	7.1	2.0	2.2
Error Variance	41.6		
Variance of Mean	31.2		
Stand. Deviation	6.5		
Signif. if > +-1	0.7	0.2	0.2
Signif. if > +-1	0.5	0.2	0.2
Signif. if > +-1	0.3	0.1	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Cd CADNIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	-0.0	0.0	0.1	0.1	0.1	Total
0.0	0.0	0.0	0.0	0.0	0.0	0.0	A
0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	C
0.0	0.0	-0.0	0.0	0.0	0.0	0.0	AC
0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	D
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.0	0.0	-0.0	-0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	0.1	0.0	-0.1	-0.9	-0.1	0.1
@95%CB,	0.1	0.0	-0.1	-0.7	-0.1	0.1
@99%CB,	0.0	0.0	-0.0	-0.4	-0.0	0.0

"YATES" table for stove and rate for
Cd CADNIUM

MEAN VALUE	1	2	
0.1	0.1	0.1	Total
0.0	0.0	-0.0	B
0.0	-0.0	-0.1	D
0.0	0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	-0.0	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	-0.5	-1.2	0.5
Signif. if > +-1	-0.4	-0.8	0.4
Signif. if > +-1	-0.2	-0.5	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
K POTASSIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
22.4	5.3	17.1	13.8	60.9	114.0	290.0	Total
47.1	47.1	0.0	47.1	53.1	176.0	163.8	A
3.7	16.2	-12.5	9.9	98.0	66.5	-27.8	C
36.7	49.6	-13.0	43.2	78.0	97.3	-0.0	AC
31.6	17.7	13.9	24.7	33.2	-7.8	62.0	D
73.3	73.3	0.0	73.3	33.2	-19.9	30.8	AD
14.7	14.7	0.0	14.7	48.7	0.0	-12.1	CD
78.4	48.3	30.1	63.3	48.7	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	40.9	-0.0	-6.9	15.5	7.7	-3.0
Error Variance	171.6					
Variance of Mean	85.8					
Stand. Deviation	9.3					
(Signif. if > +-1)						
@90%CB,	3.0	-0.0	-0.5	1.1	0.6	-0.2
@95%CB,	2.2	-0.0	-0.4	0.8	0.4	-0.2
@99%CB,	1.3	-0.0	-0.2	0.5	0.2	-0.1

"YATES" table for stove and rate for
K POTASSIUM

MEAN VALUE	1	2	
3.5	17.4	49.7	Total
13.8	32.3	27.3	B
7.6	10.3	14.9	D
24.7	17.0	6.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	13.7	7.5	3.4
Error Variance	171.6		
Variance of Mean	128.7		
Stand. Deviation	13.1		
Signif. if > +-1	0.7	0.4	0.2
Signif. if > +-1	0.5	0.3	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Mg MAGNESIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3.5	0.0	3.5	1.7	4.6	6.5	15.3	Total
2.9	2.9	0.0	2.9	1.8	8.8	4.8	A
0.1	0.6	-0.5	0.4	7.0	2.3	-7.9	C
0.3	2.7	-2.5	1.5	1.9	2.6	0.0	AC
4.1	1.6	2.5	2.8	1.1	-2.8	2.4	D
4.1	4.1	0.0	4.1	1.1	-5.1	0.3	AD
0.3	0.3	0.0	0.3	1.3	-0.0	-2.3	CD
2.5	0.6	1.9	1.6	1.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	1.2	0.0	-2.0	0.6	0.1	-0.6
Error Variance	2.8					
Variance of Mean	1.4					
Stand. Deviation	1.2					
(Signif. if > +-1)						
@90%CB,	0.7	0.0	-1.1	0.3	0.0	-0.3
@95%CB,	0.5	0.0	-0.8	0.2	0.0	-0.2
@99%CB,	0.3	0.0	-0.5	0.1	0.0	-0.1

"YATES" table for stove and rate for
Mg MAGNESIUM

MEAN VALUE	1	2	
0.1	1.8	4.7	Total
1.7	2.8	4.5	B
0.0	1.7	1.0	D
2.8	2.8	1.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	2.3	0.5	0.6
Error Variance	2.8		
Variance of Mean	2.1		
Stand. Deviation	1.7		
Signif. if > +-1	0.9	0.2	0.2
Signif. if > +-1	0.7	0.1	0.2
Signif. if > +-1	0.4	0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Mn MANGANESE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.3	0.0	0.2	0.2	0.4	0.6	1.4	Total
0.2	0.2	0.0	0.2	0.2	0.8	0.4	A
0.0	0.1	-0.1	0.1	0.4	0.2	-0.2	C
0.1	0.2	-0.1	0.1	0.4	0.2	0.0	AC
0.2	0.1	0.0	0.2	0.1	-0.2	0.2	D
0.3	0.3	0.0	0.3	0.1	-0.0	0.1	AD
0.1	0.1	0.0	0.1	0.1	-0.0	0.2	CD
0.3	0.3	-0.0	0.3	0.1	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	0.0	-0.1	0.1	0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	1.1	0.0	-0.6	0.6	0.2	0.5
@95%CB,	0.8	0.0	-0.5	0.4	0.1	0.4
@99%CB,	0.5	0.0	-0.3	0.3	0.1	0.2

"YATES" table for stove and rate for
Mn MANGANESE

MEAN VALUE	1	2	
0.2	0.4	0.7	Total
0.2	0.3	-0.0	B
0.1	-0.0	-0.1	D
0.2	0.0	0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	-0.0	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	-0.1	-0.4	0.3
Signif. if > +-1	-0.1	-0.3	0.2
Signif. if > +-1	-0.0	-0.2	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ni NICKEL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.0	0.0	0.3	Total
0.0	0.0	0.0	0.0	0.0	0.3	-0.0	A
0.0	0.0	-0.0	0.0	0.1	-0.0	0.0	C
0.0	0.0	0.0	0.0	0.1	-0.0	-0.3	AC
0.0	0.0	0.0	0.0	0.0	0.0	0.2	D
0.1	0.1	0.0	0.1	-0.0	0.0	0.0	AD
0.1	0.1	0.0	0.1	0.1	-0.0	-0.0	CD
0.0	0.0	0.0	0.0	-0.1	-0.3	-0.2	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.0	-0.1	0.0	0.1	0.0	-0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	-0.8	-5.6	0.8	4.8	0.0	-0.0
@95%CB,	-0.6	-4.1	0.6	3.5	0.0	-0.0
@99%CB,	-0.3	-2.4	0.3	2.1	0.0	-0.0

"YATES" table for stove and rate for
Ni NICKEL

MEAN VALUE	1	2	
0.0	0.0	0.0	Total
0.0	0.0	0.0	B
0.0	0.0	0.0	D
0.0	0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PO4PHOSPHOROUS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.6	0.2	0.4	0.4	1.1	1.7	3.9	Total
0.7	0.7	0.0	0.7	0.5	2.2	2.1	A
0.0	0.2	-0.2	0.1	1.5	0.6	-1.4	C
0.3	0.5	-0.2	0.4	0.7	1.4	0.0	AC
0.5	0.3	0.2	0.4	0.3	-0.6	0.6	D
1.1	1.1	0.0	1.1	0.3	-0.8	0.8	AD
0.0	0.0	0.0	0.0	0.7	0.0	-0.1	CD
1.0	0.4	0.6	0.7	0.7	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.5	0.0	-0.3	0.1	0.2	-0.0
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	2.0	0.0	-1.3	0.5	0.8	-0.1
@95%CB,	1.5	0.0	-1.0	0.4	0.6	-0.1
@99%CB,	0.9	0.0	-0.6	0.2	0.3	-0.1

"YATES" table for stove and rate for PO4PHOSPHOROUS

MEAN VALUE	1	2	
0.5	0.9	1.5	Total
0.4	0.6	0.1	B
0.3	-0.0	-0.2	D
0.4	0.1	0.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	-0.1	0.1
Error Variance	0.1		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	0.1	-0.3	0.2
Signif. if > +-1	0.1	-0.2	0.2
Signif. if > +-1	0.1	-0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Pb LEAD

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.1	0.1	0.4	Total
0.1	0.1	0.0	0.1	0.1	0.2	0.4	A
0.0	0.0	0.0	0.0	0.1	0.1	-0.0	C
0.1	0.1	-0.0	0.1	0.1	0.2	-0.0	AC
0.0	0.0	0.0	0.0	0.1	0.0	0.1	D
0.1	0.1	0.0	0.1	0.1	-0.0	0.1	AD
0.0	0.0	0.0	0.0	0.1	0.0	-0.0	CD
0.1	0.1	0.0	0.1	0.1	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.1	-0.0	-0.0	0.0	0.0	-0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	4.8	-0.0	-0.0	0.9	0.9	-0.0
@95%CB,	3.5	-0.0	-0.0	0.7	0.7	-0.0
@99%CB,	2.1	-0.0	-0.0	0.4	0.4	-0.0

"YATES" table for stove and rate for Pb LEAD

MEAN VALUE	1	2	
0.2	0.2	0.2	Total
0.0	0.1	-0.2	B
0.1	-0.2	-0.1	D
0.0	-0.1	0.1	BD

	B Stove	D Rate	BD
Main Effects	-0.1	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	-4.0	-1.7	1.7
Signif. if > +-1	-3.0	-1.2	1.2
Signif. if > +-1	-1.8	-0.7	0.7

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Al ALUMINUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7.4	0.3	7.1	3.9	10.4	14.8	30.6	Total
6.5	6.5	0.0	6.5	4.4	15.8	8.8	A
0.3	1.5	-1.3	0.9	13.3	5.2	-16.8	C
0.7	6.4	-5.7	3.5	2.5	3.6	0.0	AC
3.3	8.3	-5.0	5.8	2.6	-6.0	1.0	D
7.6	7.6	0.0	7.6	2.6	-10.9	-1.7	AD
0.3	0.3	0.0	0.3	1.8	0.0	-4.9	CD
3.4	0.9	2.5	2.1	1.8	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	2.2	0.0	-4.2	0.3	-0.4	-1.2
Error Variance	11.5					
Variance of Mean	5.7					
Stand. Deviation	2.4					
(Signif. if > +-1)						
@90%CB,	0.6	0.0	-1.2	0.1	-0.1	-0.3
@95%CB,	0.5	0.0	-0.9	0.1	-0.1	-0.3
@99%CB,	0.3	0.0	-0.5	0.0	-0.1	-0.2

"YATES" table for stove and rate for
Al ALUMINUM

MEAN VALUE	1	2	
0.0	3.9	10.2	Total
3.9	6.4	9.1	B
0.6	3.9	2.5	D
5.8	5.2	1.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	4.5	1.2	0.7
Error Variance	11.5		
Variance of Mean	8.6		
Stand. Deviation	3.4		
Signif. if > +-1	0.9	0.2	0.1
Signif. if > +-1	0.7	0.2	0.1
Signif. if > +-1	0.4	0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Cd CADNIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	-0.0	0.0	0.0	0.1	0.1	Total
0.0	0.0	0.0	0.0	0.0	0.0	0.0	A
0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	C
0.0	0.0	-0.0	0.0	0.0	0.0	0.0	AC
0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	D
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.0	0.0	-0.0	-0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.1	-1.0	-0.2	0.1
@95%CB,	0.1	0.0	-0.1	-0.7	-0.1	0.1
@99%CB,	0.1	0.0	-0.0	-0.4	-0.1	0.0

"YATES" table for stove and rate for
Cd CADNIUM

MEAN VALUE	1	2	
0.0	0.1	0.1	Total
0.0	0.0	-0.0	B
0.0	-0.0	-0.1	D
0.0	0.0	0.0	BD

	B Stove	D Rate	BD
Main Effects	-0.0	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	-0.6	-1.2	0.6
Signif. if > +-1	-0.4	-0.9	0.4
Signif. if > +-1	-0.3	-0.5	0.3

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
K POTASSIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.0	3.2	15.7	11.1	49.2	88.1	157.1	Total
38.1	38.1	0.0	38.1	38.9	69.0	97.4	A
2.2	9.7	-7.5	5.9	37.2	54.1	-15.8	C
27.2	38.8	-11.6	33.0	31.7	43.3	0.0	AC
9.9	5.6	4.3	7.8	27.0	-10.3	-19.2	D
29.4	29.4	0.0	29.4	27.0	-5.5	-10.7	AD
5.0	5.0	0.0	5.0	21.7	0.0	4.8	CD
30.3	23.1	7.1	26.7	21.7	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	24.3	0.0	-4.0	-4.8	-2.7	1.2
Error Variance	50.8					
Variance of Mean	25.4					
Stand. Deviation	5.0					
(Signif. if > +-1)						
@90%CB,	3.3	0.0	-0.5	-0.6	-0.4	0.2
@95%CB,	2.4	0.0	-0.4	-0.5	-0.3	0.1
@99%CB,	1.4	0.0	-0.2	-0.3	-0.2	0.1

"YATES" table for stove and rate for
K POTASSIUM

MEAN VALUE	1	2	
2.6	13.7	25.5	Total
11.1	11.7	12.3	B
3.9	8.5	-2.0	D
7.8	3.9	-4.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	6.2	-1.0	-2.3
Error Variance	50.8		
Variance of Mean	38.1		
Stand. Deviation	7.1		
Signif. if > +-1	0.6	-0.1	-0.2
Signif. if > +-1	0.4	-0.1	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ni NICKEL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.0	0.0	0.1	Total
0.0	0.0	0.0	0.0	0.0	0.1	-0.0	A
0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	C
0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	AC
0.0	0.0	0.0	0.0	0.0	0.0	0.1	D
0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.0	-0.0	0.0	CD
0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.0	-0.0	0.0	0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	-0.8	-3.2	0.8	2.4	-0.0	0.0
@95%CB,	-0.6	-2.3	0.6	1.8	-0.0	0.0
@99%CB,	-0.3	-1.4	0.3	1.1	-0.0	0.0

"YATES" table for stove and rate for
Ni NICKEL

MEAN VALUE	1	2	
0.0	0.0	0.0	Total
0.0	0.0	0.0	B
0.0	0.0	0.0	D
0.0	0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0
Signif. if > +-1	0.0	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PO4PHOSPHOROUS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.5	0.1	0.4	0.3	0.9	1.3	2.1	Total
0.6	0.6	0.0	0.6	0.4	0.8	1.1	A
0.0	0.1	-0.1	0.1	0.5	0.5	-0.8	C
0.2	0.4	-0.2	0.3	0.3	0.6	0.0	AC
0.1	0.1	0.1	0.1	0.3	-0.5	-0.4	D
0.4	0.4	0.0	0.4	0.3	-0.2	0.1	AD
0.0	0.0	0.0	0.0	0.3	0.0	0.3	CD
0.4	0.2	0.2	0.3	0.3	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.3	0.0	-0.2	-0.1	0.0	0.1
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	1.7	0.0	-1.2	-0.7	0.1	0.4
@95%CB,	1.2	0.0	-0.9	-0.5	0.1	0.3
@99%CB,	0.7	0.0	-0.5	-0.3	0.1	0.2

"YATES" table for stove and rate for PO4PHOSPHOROUS

MEAN VALUE	1	2	
0.3	0.7	0.9	Total
0.3	0.3	-0.0	B
0.1	-0.0	-0.4	D
0.1	-0.0	0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	-0.0	-0.2	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	-0.0	-0.9	0.0
Signif. if > +-1	-0.0	-0.7	0.0
Signif. if > +-1	-0.0	-0.4	0.0

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Pb LEAD

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	0.1	0.1	0.2	Total
0.1	0.1	0.0	0.1	0.1	0.1	0.2	A
0.0	0.0	0.0	0.0	0.0	0.1	0.0	C
0.0	0.1	-0.0	0.1	0.0	0.1	0.0	AC
0.0	0.0	0.0	0.0	0.1	0.0	-0.0	D
0.0	0.0	0.0	0.0	0.1	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	0.0	0.0	-0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	4.3	0.0	0.0	-0.4	-0.4	0.0
@95%CB,	3.1	0.0	0.0	-0.3	-0.3	0.0
@99%CB,	1.9	0.0	0.0	-0.2	-0.2	0.0

"YATES" table for stove and rate for Pb LEAD

MEAN VALUE	1	2	
0.1	0.1	0.1	Total
0.0	0.0	-0.1	B
0.0	-0.1	-0.1	D
0.0	-0.0	0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	-0.1	-0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	-4.4	-2.4	2.4
Signif. if > +-1	-3.2	-1.8	1.8
Signif. if > +-1	-1.9	-1.1	1.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Sn TIN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.2	0.0	0.2	0.1	0.4	0.6	0.6	Total
0.3	0.3	0.0	0.3	0.2	0.0	0.4	A
0.0	0.0	0.0	0.0	0.0	0.4	-0.2	C
0.1	0.3	-0.2	0.2	0.0	-0.0	0.0	AC
0.0	0.0	0.0	0.0	0.2	-0.2	-0.5	D
0.0	0.0	0.0	0.0	0.2	-0.0	-0.4	AD
0.0	0.0	0.0	0.0	-0.0	0.0	0.1	CD
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	0.0	-0.1	-0.1	-0.1	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	1.0	0.0	-0.6	-1.3	-1.0	0.4
@95%CB,	0.7	0.0	-0.5	-1.0	-0.7	0.3
@99%CB,	0.4	0.0	-0.3	-0.6	-0.4	0.2

"YATES" table for stove and rate for
Sn TIN

MEAN VALUE	1	2	
0.0	0.1	0.1	Total
0.1	0.0	0.1	B
0.0	0.1	-0.1	D
0.0	0.0	-0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.1	-0.0	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.3	-0.2	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACETYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
64.9	95.8	-30.9	80.3	135.2	251.7	577.9	Total
54.8	54.8	0.0	54.8	116.5	326.2	-117.6	A
25.5	116.5	-91.0	71.0	161.0	-51.1	-14.4	C
41.0	50.0	-9.0	45.5	165.2	-66.5	0.0	AC
109.1	85.1	23.9	97.1	-25.5	-18.6	74.5	D
63.9	63.9	0.0	63.9	-25.5	4.3	-15.4	AD
113.3	85.1	28.2	99.2	-33.3	0.0	22.9	CD
83.5	48.4	35.1	66.0	-33.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-29.4	0.0	-3.6	18.6	-3.9	5.7
Error Variance	1112.0					
Variance of Mean	556.0					
Stand. Deviation	23.6					
(Signif. if > +-1)						
@90%CB,	-0.8	0.0	-0.1	0.5	-0.1	0.2
@95%CB,	-0.6	0.0	-0.1	0.4	-0.1	0.1
@99%CB,	-0.4	0.0	-0.0	0.2	-0.0	0.1

"YATES" table for stove and rate for ACETYLENE

MEAN VALUE	1	2	
35.7	116.0	254.6	Total
80.3	138.6	100.3	B
41.5	44.7	22.6	D
97.1	55.6	10.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	50.2	11.3	5.5
Error Variance	1112.0		
Variance of Mean	834.0		
Stand. Deviation	33.3		
Signif. if > +-1	1.0	0.2	0.1
Signif. if > +-1	0.7	0.2	0.1
Signif. if > +-1	0.4	0.1	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BUTENES

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
17.2	67.6	-50.5	42.4	59.9	228.2	403.6	Total
17.5	17.5	0.0	17.5	168.3	175.4	-129.6	A
45.3	147.9	-102.6	96.6	50.2	-49.9	183.5	C
57.3	86.0	-28.7	71.7	125.3	-79.7	-0.0	AC
51.0	39.0	12.0	45.0	-24.9	108.4	-52.7	D
5.2	5.2	0.0	5.2	-24.9	75.1	-29.8	AD
78.0	87.1	-9.2	82.6	-39.8	0.0	-33.3	CD
85.4	0.0	85.4	42.7	-39.8	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-32.4	-0.0	45.9	-13.2	-7.5	-8.3
Error Variance	2134.0					
Variance of Mean	1067.0					
Stand. Deviation	32.7					
(Signif. if > +-1)						
@90%CB,	-0.7	-0.0	1.0	-0.3	-0.2	-0.2
@95%CB,	-0.5	-0.0	0.7	-0.2	-0.1	-0.1
@99%CB,	-0.3	-0.0	0.4	-0.1	-0.1	-0.1

"YATES" table for stove and rate for BUTENES

MEAN VALUE	1	2	
54.5	96.9	183.7	Total
42.4	86.9	-8.9	B
41.9	-12.0	-10.0	D
45.0	3.2	15.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	-4.4	-5.0	7.6
Error Variance	2134.0		
Variance of Mean	1600.5		
Stand. Deviation	46.2		
Signif. if > +-1	-0.1	-0.1	0.1
Signif. if > +-1	-0.0	-0.1	0.1
Signif. if > +-1	-0.0	-0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PENTENES

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
104.9	23.5	81.4	64.2	152.8	242.5	337.0	Total
88.6	88.6	0.0	88.6	89.7	94.6	69.4	A
12.6	52.7	-40.1	32.7	51.6	48.7	-71.7	C
44.7	69.4	-24.6	57.0	43.0	20.6	-0.0	AC
21.8	19.5	2.3	20.6	24.4	-63.1	-147.9	D
31.0	31.0	0.0	31.0	24.4	-8.6	-28.1	AD
13.2	19.5	-6.3	16.3	10.3	-0.0	54.5	CD
53.3	0.0	53.3	26.7	10.3	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	17.3	-0.0	-17.9	-37.0	-7.0	13.6
Error Variance	1168.9					
Variance of Mean	584.5					
Stand. Deviation	24.2					
(Signif. if > +-1)						
@90%CB,	0.5	-0.0	-0.5	-1.0	-0.2	0.4
@95%CB,	0.4	-0.0	-0.4	-0.8	-0.1	0.3
@99%CB,	0.2	-0.0	-0.2	-0.5	-0.1	0.2

"YATES" table for stove and rate for PENTENES

MEAN VALUE	1	2	
10.9	75.1	106.0	Total
64.2	31.0	63.6	B
10.3	53.3	-44.1	D
20.6	10.3	-43.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	31.8	-22.1	-21.5
Error Variance	1168.9		
Variance of Mean	876.7		
Stand. Deviation	34.2		
Signif. if > +-1	0.6	-0.4	-0.4
Signif. if > +-1	0.5	-0.3	-0.3
Signif. if > +-1	0.3	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
138.9	158.6	-19.7	148.7	201.4	448.8	854.0	Total
52.7	52.7	0.0	52.7	247.4	405.2	-484.2	A
96.3	253.8	-157.5	175.1	139.4	-198.7	172.4	C
54.3	90.5	-36.2	72.4	265.8	-285.5	-13.3	AC
159.1	119.7	39.4	139.4	-96.0	46.0	-43.6	D
0.0	0.0	0.0	0.0	-102.7	126.4	-86.7	AD
208.1	203.8	4.3	205.9	-139.4	-6.7	80.3	CD
119.7	0.0	119.7	59.9	-146.1	-6.7	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-121.1	-3.3	43.1	-10.9	-21.7	20.1
Error Variance	4238.7					
Variance of Mean	2119.4					
Stand. Deviation	46.0					
(Signif. if > +-1)						
@90%CB,	-1.8	-0.0	0.6	-0.2	-0.3	0.3
@95%CB,	-1.3	-0.0	0.5	-0.1	-0.2	0.2
@99%CB,	-0.8	-0.0	0.3	-0.1	-0.1	0.1

"YATES" table for stove and rate for BENZENE

MEAN VALUE	1	2	
92.1	240.8	488.7	Total
148.7	248.0	87.5	B
108.5	56.7	7.2	D
139.4	30.9	-25.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	43.8	3.6	-12.9
Error Variance	4238.7		
Variance of Mean	3179.1		
Stand. Deviation	65.1		
Signif. if > +-1	0.5	0.0	-0.1
Signif. if > +-1	0.3	0.0	-0.1
Signif. if > +-1	0.2	0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOLUENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
95.2	53.8	41.4	74.5	120.0	219.0	338.4	Total
45.5	45.5	0.0	45.5	99.0	119.4	-166.2	A
28.5	117.3	-88.8	72.9	36.3	-75.9	25.8	C
18.3	33.9	-15.6	26.1	83.1	-90.4	-35.5	AC
40.4	32.3	8.1	36.3	-29.1	-21.0	-99.5	D
0.0	0.0	0.0	0.0	-46.8	46.8	-14.5	AD
74.8	62.4	12.4	68.6	-36.3	-17.8	67.8	CD
29.1	0.0	29.1	14.5	-54.1	-17.8	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-41.6	-8.9	6.5	-24.9	-3.6	16.9
Error Variance	1074.9					
Variance of Mean	537.4					
Stand. Deviation	23.2					
(Signif. if > +-1)						
@90%CB,	-1.2	-0.3	0.2	-0.7	-0.1	0.5
@95%CB,	-0.9	-0.2	0.1	-0.5	-0.1	0.4
@99%CB,	-0.5	-0.1	0.1	-0.3	-0.0	0.2

"YATES" table for stove and rate for TOLUENE

MEAN VALUE	1	2	
34.4	108.9	182.4	Total
74.5	73.4	39.3	B
37.1	40.1	-35.5	D
36.3	-0.8	-40.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	19.6	-17.8	-20.4
Error Variance	1074.9		
Variance of Mean	806.2		
Stand. Deviation	32.8		
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
METHYL ETHYL KETONE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
57.5	5.9	51.6	31.7	112.7	158.4	238.0	Total
81.0	81.0	0.0	81.0	45.7	79.6	-7.4	A
5.9	38.3	-32.4	22.1	5.2	50.8	2.2	C
16.2	30.9	-14.7	23.6	74.4	-58.2	-95.8	AC
5.9	4.4	1.5	5.2	49.4	-67.0	-78.8	D
0.0	0.0	0.0	0.0	1.5	69.3	-109.0	AD
7.4	120.1	-112.7	63.7	-5.2	-47.9	136.3	CD
21.4	0.0	21.4	10.7	-53.0	-47.9	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1.8	-23.9	0.6	-19.7	-27.3	34.1
Error Variance	438.7					
Variance of Mean	219.3					
Stand. Deviation	14.8					
(Signif. if > +-1)						
@90%CB,	-0.1	-1.1	0.0	-0.9	-1.2	1.6
@95%CB,	-0.1	-0.8	0.0	-0.7	-0.9	1.1
@99%CB,	-0.0	-0.5	0.0	-0.4	-0.5	0.7

"YATES" table for stove and rate for
METHYL ETHYL KETONE

MEAN VALUE	1	2	
4.4	36.1	44.9	Total
31.7	8.8	28.7	B
3.7	27.3	-27.3	D
5.2	1.5	-25.8	BD

	B Stove	D Rate	BD
Main Effects	14.4	-13.6	-12.9
Error Variance	438.7		
Variance of Mean	329.0		
Stand. Deviation	20.9		
Signif. if > +-1	0.5	-0.4	-0.4
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2-METHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
121.5	6.7	114.8	64.1	173.1	280.5	350.3	Total
109.1	109.1	0.0	109.1	107.4	69.8	125.5	A
9.4	53.0	-43.6	31.2	29.2	89.9	-54.4	C
55.0	97.3	-42.3	76.2	40.6	35.6	-0.0	AC
6.0	5.4	0.7	5.7	45.0	-65.8	-210.7	D
23.5	23.5	0.0	23.5	45.0	11.4	-54.4	AD
8.7	14.1	-5.4	11.4	17.8	-0.0	77.2	CD
58.4	0.0	58.4	29.2	17.8	-0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	31.4	-0.0	-13.6	-52.7	-13.6	19.3
Error Variance	2026.9					
Variance of Mean	1013.5					
Stand. Deviation	31.8					
(Signif. if > +-1)						
@90%CB,	0.7	-0.0	-0.3	-1.1	-0.3	0.4
@95%CB,	0.5	-0.0	-0.2	-0.8	-0.2	0.3
@99%CB,	0.3	-0.0	-0.1	-0.5	-0.1	0.2

"YATES" table for stove and rate for
2-METHYL FURAN

MEAN VALUE	1	2	
215.4	279.5	289.2	Total
64.1	9.7	-149.7	B
4.0	-151.3	-269.8	D
5.7	1.7	153.0	BD

	B Stove	D Rate	BD
Main Effects	-74.8	-134.9	76.5
Error Variance	2026.9		
Variance of Mean	1520.2		
Stand. Deviation	45.0		
Signif. if > +-1	-1.1	-2.0	1.2
Signif. if > +-1	-0.8	-1.5	0.8
Signif. if > +-1	-0.5	-0.9	0.5

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACETYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
719.1	1151.1	-432.0	935.1	1768.1	3202.1	9272.8	Total
833.0	833.0	0.0	833.0	1434.1	6070.7	-1325.1	A
296.0	1240.1	-944.1	768.1	3098.4	-204.1	-460.2	C
629.7	702.3	-72.7	666.0	2972.2	-1121.0	0.0	AC
2071.0	1588.0	483.0	1829.5	-102.1	-334.0	2868.6	D
1269.0	1269.0	0.0	1269.0	-102.1	-126.2	-916.9	AD
2295.3	1237.5	1057.9	1766.4	-560.5	0.0	207.8	CD
1576.6	835.2	741.4	1205.9	-560.5	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-331.3	0.0	-115.1	717.1	-229.2	52.0
Error Variance	186625.2					
Variance of Mean	93312.6					
Stand. Deviation	305.5					
(Signif. if > +-1)						
@90%CB,	-0.7	0.0	-0.3	1.6	-0.5	0.1
@95%CB,	-0.5	0.0	-0.2	1.2	-0.4	0.1
@99%CB,	-0.3	0.0	-0.1	0.7	-0.2	0.1

"YATES" table for stove and rate for ACETYLENE

MEAN VALUE	1	2	
367.4	1302.4	3687.4	Total
935.1	2385.0	1841.7	B
555.5	567.7	1082.5	D
1829.5	1274.0	706.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	920.8	541.3	353.2
Error Variance	186625.2		
Variance of Mean	139968.9		
Stand. Deviation	432.0		
Signif. if > +-1	1.4	0.8	0.6
Signif. if > +-1	1.1	0.6	0.4
Signif. if > +-1	0.6	0.4	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1538.4	1905.6	-367.3	1722.0	2587.5	5548.3	13061.4	Total
865.5	865.5	0.0	865.5	2960.7	7513.1	-6629.1	A
1116.1	2701.1	-1584.9	1908.6	2795.6	-1712.9	2295.1	C
834.1	1270.2	-436.1	1052.1	4717.5	-4916.2	0.0	AC
3020.6	2233.1	787.6	2626.8	-856.5	373.2	1964.8	D
168.7	168.7	0.0	168.7	-856.5	1921.9	-3203.3	AD
4213.5	2962.2	1251.3	3587.8	-2458.1	0.0	1548.7	CD
2259.4	0.0	2259.4	1129.7	-2458.1	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1657.3	0.0	573.8	491.2	-800.8	387.2
Error Variance	856225.4					
Variance of Mean	428112.7					
Stand. Deviation	654.3					
(Signif. if > +-1)						
@90%CB,	-1.7	0.0	0.6	0.5	-0.8	0.4
@95%CB,	-1.3	0.0	0.4	0.4	-0.6	0.3
@99%CB,	-0.8	0.0	0.3	0.2	-0.4	0.2

"YATES" table for stove and rate for BENZENE

MEAN VALUE	1	2	
948.6	2670.6	6750.3	Total
1722.0	4079.7	1947.4	B
1452.8	773.4	1409.1	D
2626.8	1174.0	400.6	BD

	H Stove	D Rate	BD
Main Effects	973.7	704.5	200.3
Error Variance	856225.4		
Variance of Mean	642169.0		
Stand. Deviation	925.3		
Signif. if > +-1	0.7	0.5	0.1
Signif. if > +-1	0.5	0.4	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOLUENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1054.8	646.6	408.3	850.7	1543.2	2711.0	4880.0	Total
692.5	692.5	0.0	692.5	1167.8	2169.0	-2189.7	A
330.4	1248.1	-917.7	789.3	684.1	-569.0	425.5	C
281.1	475.9	-194.8	378.5	1484.9	-1620.7	-505.1	AC
766.1	602.1	164.0	684.1	-158.2	-375.4	-542.0	D
0.0	0.0	0.0	0.0	-410.8	800.8	-1051.8	AD
1514.5	907.1	607.4	1210.8	-684.1	-252.6	1176.2	CD
548.3	0.0	548.3	274.1	-936.7	-252.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-547.4	-126.3	106.4	-135.5	-262.9	294.1
Error Variance	137427.1					
Variance of Mean	68713.6					
Stand. Deviation	262.1					
(Signif. if > +-1)						
@90%CB,	-1.4	-0.3	0.3	-0.4	-0.7	0.8
@95%CB,	-1.0	-0.2	0.2	-0.3	-0.5	0.6
@99%CB,	-0.6	-0.1	0.1	-0.2	-0.3	0.3

"YATES" table for stove and rate for TOLUENE

MEAN VALUE	1	2	
354.8	1205.5	2386.4	Total
850.7	1180.9	683.1	B
496.8	495.9	-24.6	D
684.1	187.2	-308.6	BD

	B Stove	D Rate	BD
Main Effects	341.6	-12.3	-154.3
Error Variance	137427.1		
Variance of Mean	103070.4		
Stand. Deviation	370.7		
Signif. if > +-1	0.6	-0.0	-0.3
Signif. if > +-1	0.5	-0.0	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
METHYL ETHYL KETONE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
636.6	70.8	565.8	353.7	1242.6	1605.2	2851.4	Total
888.9	888.9	0.0	888.9	362.6	1246.2	-421.3	A
68.3	407.7	-339.4	238.0	97.2	421.7	171.8	C
249.1	0.0	249.1	124.6	1149.0	-843.0	-1297.2	AC
111.9	82.5	29.5	97.2	535.2	-880.0	-358.9	D
0.0	0.0	0.0	0.0	-113.5	1051.9	-1264.7	AD
149.2	1745.6	-1596.4	947.4	-97.2	-648.6	1931.9	CD
403.2	0.0	403.2	201.6	-745.8	-648.6	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-105.3	-324.3	43.0	-89.7	-316.2	483.0
Error Variance	66082.0					
Variance of Mean	33041.0					
Stand. Deviation	181.8					
(Signif. if > +-1)						
@90%CB,	-0.4	-1.2	0.2	-0.3	-1.2	1.8
@95%CB,	-0.3	-0.9	0.1	-0.2	-0.9	1.3
@99%CB,	-0.2	-0.5	0.1	-0.1	-0.5	0.8

"YATES" table for stove and rate for
METHYL ETHYL KETONE

MEAN VALUE	1	2	
45.6	399.3	545.8	Total
353.7	146.5	356.0	B
49.3	308.2	-252.8	D
97.2	47.9	-260.3	BD

	B Stove	D Rate	BD
Main Effects	178.0	-126.4	-130.1
Error Variance	66082.0		
Variance of Mean	49561.5		
Stand. Deviation	257.1		
Signif. if > +-1	0.5	-0.3	-0.3
Signif. if > +-1	0.3	-0.2	-0.3
Signif. if > +-1	0.2	-0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
315.9	292.5	23.3	304.2	1397.2	2815.6	4034.5	Total
1093.0	1093.0	0.0	1093.0	1418.3	1218.9	839.4	A
185.4	444.1	-258.7	314.7	416.6	1577.7	406.7	C
1923.9	283.2	1640.7	1103.6	802.3	-738.3	0.0	AC
422.6	363.2	59.3	392.9	788.8	21.1	-1596.6	D
23.7	23.7	0.0	23.7	788.8	385.7	-2316.0	AD
676.1	495.3	180.7	585.7	-369.1	0.0	364.6	CD
433.1	0.0	433.1	216.6	-369.1	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	209.8	0.0	101.7	-399.2	-579.0	91.1
Error Variance	295049.9					
Variance of Mean	147525.0					
Stand. Deviation	384.1					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	0.2	-0.7	-1.0	0.2
@95%CB,	0.3	0.0	0.1	-0.5	-0.7	0.1
@99%CB,	0.2	0.0	0.1	-0.3	-0.4	0.1

"YATES" table for stove and rate for FURAN

MEAN VALUE	1	2	
86.0	390.2	904.1	Total
304.2	513.9	490.1	B
121.0	218.2	123.7	D
392.9	271.9	53.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	245.0	61.8	26.8
Error Variance	295049.9		
Variance of Mean	221287.4		
Stand. Deviation	543.2		
Signif. if > +-1	0.3	0.1	0.0
Signif. if > +-1	0.2	0.1	0.0
Signif. if > +-1	0.1	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2,5-DIMETHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
326.4	23.6	302.8	175.0	538.4	909.9	1218.7	Total
363.4	363.4	0.0	363.4	371.4	308.9	546.1	A
22.8	160.3	-137.5	91.5	146.4	376.8	-150.8	C
201.3	358.6	-157.3	279.9	162.5	169.3	-0.0	AC
37.3	24.4	12.9	30.9	188.4	-167.0	-601.0	D
115.5	115.5	0.0	115.5	188.4	16.1	-207.5	AD
39.8	38.1	1.7	38.9	84.6	0.0	183.1	CD
247.1	0.0	247.1	123.6	84.6	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	136.5	-0.0	-37.7	-150.2	-51.9	45.8
Error Variance	19659.0					
Variance of Mean	9829.5					
Stand. Deviation	99.1					
(Signif. if > +-1)						
@90%CB,	0.9	-0.0	-0.3	-1.0	-0.4	0.3
@95%CB,	0.7	-0.0	-0.2	-0.8	-0.3	0.2
@99%CB,	0.4	-0.0	-0.1	-0.5	-0.2	0.1

"YATES" table for stove and rate for
2,5-DIMETHYL FURAN

MEAN VALUE	1	2	
20.2	195.2	243.6	Total
175.0	48.4	168.1	B
17.5	154.8	-146.9	D
30.9	13.3	-141.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	84.0	-73.4	-70.7
Error Variance	19659.0		
Variance of Mean	14744.2		
Stand. Deviation	140.2		
Signif. if > +-1	0.4	-0.4	-0.3
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FURFURAL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
678.6	151.0	527.6	414.8	1261.1	2451.5	3354.8	Total
846.3	846.3	0.0	846.3	1190.4	903.3	962.1	A
81.9	677.0	-595.1	379.5	300.7	862.9	231.2	C
519.0	1102.9	-583.8	810.9	602.6	99.2	-0.0	AC
119.3	131.8	-12.6	125.6	431.5	-70.7	-1548.2	D
175.2	175.2	0.0	175.2	431.5	301.8	-763.7	AD
381.7	171.2	210.5	276.5	49.6	0.0	372.5	CD
652.2	0.0	652.2	326.1	49.6	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	240.5	-0.0	57.8	-387.0	-190.9	93.1
Error Variance	139883.2					
Variance of Mean	69941.6					
Stand. Deviation	264.5					
(Signif. if > +-1)						
@90%CB,	0.6	-0.0	0.1	-1.0	-0.5	0.2
@95%CB,	0.5	-0.0	0.1	-0.7	-0.4	0.2
@99%CB,	0.3	-0.0	0.1	-0.4	-0.2	0.1

"YATES" table for stove and rate for FURFURAL

MEAN VALUE	1	2	
64.7	479.6	689.2	Total
414.8	209.7	391.5	B
84.1	350.1	-269.9	D
125.6	41.5	-308.6	BD

	B Stove	D Rate	BD
Main Effects	195.8	-134.9	-154.3
Error Variance	139883.2		
Variance of Mean	104912.4		
Stand. Deviation	374.0		
Signif. if > +-1	0.4	-0.2	-0.3
Signif. if > +-1	0.3	-0.2	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for O-XYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
216.3	267.3	-51.0	241.8	697.1	1054.0	1607.4	Total
455.3	455.3	0.0	455.3	357.0	553.3	-352.0	A
94.3	438.7	-344.4	266.5	0.0	37.5	213.2	C
66.7	114.2	-47.6	90.5	553.3	-389.6	-779.1	AC
0.0	0.0	0.0	0.0	213.5	-340.1	-500.7	D
0.0	0.0	0.0	0.0	-176.0	553.3	-427.1	AD
659.1	283.8	375.3	471.4	0.0	-389.6	893.5	CD
163.8	0.0	163.8	81.9	-389.6	-389.6	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-88.0	-194.8	53.3	-125.2	-106.8	223.4
Error Variance	15029.5					
Variance of Mean	7514.7					
Stand. Deviation	86.7					
(Signif. if > +-1)						
@90%CB,	-0.7	-1.5	0.4	-1.0	-0.8	1.7
@95%CB,	-0.5	-1.1	0.3	-0.7	-0.6	1.3
@99%CB,	-0.3	-0.7	0.2	-0.4	-0.4	0.8

"YATES" table for stove and rate for O-XYLENE

MEAN VALUE	1	2	
128.6	370.3	544.6	Total
241.8	174.2	-61.0	B
174.2	113.2	-196.1	D
0.0	-174.2	-287.4	BD

	B Stove	D Rate	BD
Main Effects	-30.5	-98.1	-143.7
Error Variance	15029.5		
Variance of Mean	11272.1		
Stand. Deviation	122.6		
Signif. if > +-1	-0.2	-0.5	-0.8
Signif. if > +-1	-0.1	-0.4	-0.6
Signif. if > +-1	-0.1	-0.2	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACETYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
532.6	852.6	-320.0	692.6	1309.7	2372.0	6868.8	Total
617.0	617.0	0.0	617.0	1062.3	4496.8	-981.6	A
219.3	918.6	-699.3	568.9	2295.1	-151.2	-340.9	C
466.4	520.3	-53.8	493.3	2201.7	-830.4	0.0	AC
1534.1	1176.3	357.8	1355.2	-75.6	-247.4	2124.9	D
940.0	940.0	0.0	940.0	-75.6	-93.5	-679.2	AD
1700.2	916.6	783.6	1308.4	-415.2	0.0	154.0	CD
1167.8	618.6	549.2	893.2	-415.2	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-245.4	0.0	-85.2	531.2	-169.8	38.5
Error Variance	102400.7					
Variance of Mean	51200.3					
Stand. Deviation	226.3					
(Signif. if > +-1)						
@90%CB,	-0.7	0.0	-0.3	1.6	-0.5	0.1
@95%CB,	-0.5	0.0	-0.2	1.2	-0.4	0.1
@99%CB,	-0.3	0.0	-0.1	0.7	-0.2	0.1

"YATES" table for stove and rate for ACETYLENE

MEAN VALUE	1	2	
272.1	964.8	2731.4	Total
692.6	1766.6	1364.2	B
411.5	420.5	801.9	D
1355.2	943.7	523.2	BD

	B Stove	D Rate	BD
Main Effects	682.1	400.9	261.6
Error Variance	102400.7		
Variance of Mean	76800.5		
Stand. Deviation	320.0		
Signif. if > +-1	1.4	0.8	0.6
Signif. if > +-1	1.1	0.6	0.4
Signif. if > +-1	0.6	0.4	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BENZENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1139.5	1411.6	-272.1	1275.6	1916.7	4109.8	9675.1	Total
641.1	641.1	0.0	641.1	2193.1	5565.3	-4910.5	A
826.8	2000.8	-1174.0	1413.8	2070.8	-1268.8	1700.1	C
617.8	940.9	-323.0	779.4	3494.4	-3641.6	0.0	AC
2237.5	1654.1	583.4	1945.8	-634.4	276.4	1455.4	D
125.0	125.0	0.0	125.0	-634.4	1423.6	-2372.8	AD
3121.1	2194.2	926.9	2657.6	-1820.8	0.0	1147.2	CD
1673.6	0.0	1673.6	836.8	-1820.8	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-1227.6	0.0	425.0	363.9	-593.2	286.8
Error Variance	469808.2					
Variance of Mean	234904.1					
Stand. Deviation	484.7					
(Signif. if > +-1)						
@90%CB,	-1.7	0.0	0.6	0.5	-0.8	0.4
@95%CB,	-1.3	0.0	0.4	0.4	-0.6	0.3
@99%CB,	-0.8	0.0	0.3	0.2	-0.4	0.2

"YATES" table for stove and rate for BENZENE

MEAN VALUE	1	2	
702.7	1978.2	5000.2	Total
1275.6	3022.0	1442.5	B
1076.2	572.9	1043.7	D
1945.8	869.7	296.8	BD

	B Stove	D Rate	BD
Main Effects	721.3	521.9	148.4
Error Variance	469808.2		
Variance of Mean	352356.1		
Stand. Deviation	685.4		
Signif. if > +-1	0.7	0.5	0.1
Signif. if > +-1	0.5	0.4	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOLUENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
781.3	478.9	302.4	630.1	1143.1	2008.2	3614.8	Total
513.0	513.0	0.0	513.0	865.1	1606.7	-1622.0	A
244.8	924.5	-679.8	584.7	506.7	-421.5	315.2	C
208.2	352.5	-144.3	280.4	1099.9	-1200.6	-374.2	AC
567.5	446.0	121.5	506.7	-117.2	-278.1	-401.5	D
0.0	0.0	0.0	0.0	-304.3	593.2	-779.1	AD
1121.8	671.9	449.9	896.9	-506.7	-187.1	871.3	CD
406.1	0.0	406.1	203.1	-693.8	-187.1	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-405.5	-93.5	78.8	-100.4	-194.8	217.8
Error Variance	75405.8					
Variance of Mean	37702.9					
Stand. Deviation	194.2					
(Signif. if > +-1)						
@90%CB,	-1.4	-0.3	0.3	-0.4	-0.7	0.8
@95%CB,	-1.0	-0.2	0.2	-0.3	-0.5	0.6
@99%CB,	-0.6	-0.1	0.1	-0.2	-0.3	0.3

"YATES" table for stove and rate for TOLUENE

MEAN VALUE	1	2	
262.8	893.0	1767.7	Total
630.1	874.8	506.0	B
368.0	367.3	-18.2	D
506.7	138.7	-228.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	253.0	-9.1	-114.3
Error Variance	75405.8		
Variance of Mean	56554.4		
Stand. Deviation	274.6		
Signif. if > +-1	0.6	-0.0	-0.3
Signif. if > +-1	0.5	-0.0	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
234.0	216.7	17.3	225.3	1035.0	2085.6	2988.5	Total
809.7	809.7	0.0	809.7	1050.6	902.9	621.8	A
137.3	329.0	-191.6	233.1	308.6	1168.6	301.3	C
1425.1	209.8	1215.3	817.5	594.3	-546.9	0.0	AC
313.0	269.1	43.9	291.0	584.3	15.6	-1182.7	D
17.6	17.6	0.0	17.6	584.3	285.7	-1715.5	AD
500.8	366.9	133.9	433.9	-273.4	0.0	270.1	CD
320.8	0.0	320.8	160.4	-273.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	155.4	0.0	75.3	-295.7	-428.9	67.5
Error Variance	161893.0					
Variance of Mean	80946.5					
Stand. Deviation	284.5					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	0.2	-0.7	-1.0	0.2
@95%CB,	0.3	0.0	0.1	-0.5	-0.7	0.1
@99%CB,	0.2	0.0	0.1	-0.3	-0.4	0.1

"YATES" table for stove and rate for FURAN

MEAN VALUE	1	2	
63.7	289.0	669.7	Total
225.3	380.7	363.0	B
89.6	161.6	91.6	D
291.0	201.4	39.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	181.5	45.8	19.9
Error Variance	161893.0		
Variance of Mean	121419.7		
Stand. Deviation	402.4		
Signif. if > +-1	0.3	0.1	0.0
Signif. if > +-1	0.2	0.1	0.0
Signif. if > +-1	0.1	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
METHYL ETHYL KETONE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
471.6	52.5	419.1	262.0	1081.4	1510.9	2434.0	Total
819.4	819.4	0.0	819.4	429.5	923.1	9.8	A
50.6	302.0	-251.4	176.3	72.0	634.2	127.3	C
184.5	321.9	-137.4	253.2	851.1	-624.4	-960.9	AC
82.9	61.1	21.8	72.0	557.3	-651.9	-587.8	D
0.0	0.0	0.0	0.0	76.9	779.2	-1258.7	AD
110.5	1293.1	-1182.5	701.8	-72.0	-480.5	1431.0	CD
298.7	0.0	298.7	149.3	-552.4	-480.5	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	2.5	-240.2	31.8	-146.9	-314.7	357.8
Error Variance	34740.7					
Variance of Mean	17370.3					
Stand. Deviation	131.8					
(Signif. if > +-1)						
@90%CB,	0.0	-1.2	0.2	-0.8	-1.6	1.8
@95%CB,	0.0	-0.9	0.1	-0.6	-1.2	1.3
@99%CB,	0.0	-0.5	0.1	-0.3	-0.7	0.8

"YATES" table for stove and rate for
METHYL ETHYL KETONE

MEAN VALUE	1	2	
33.7	295.8	404.3	Total
262.0	108.5	263.7	B
36.5	228.3	-187.2	D
72.0	35.5	-192.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	131.9	-93.6	-96.4
Error Variance	34740.7		
Variance of Mean	26055.5		
Stand. Deviation	186.4		
Signif. if > +-1	0.5	-0.3	-0.4
Signif. if > +-1	0.4	-0.2	-0.3
Signif. if > +-1	0.2	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2-METHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
996.7	59.7	936.9	528.2	1626.4	2695.0	3670.3	Total
1098.2	1098.2	0.0	1098.2	1068.6	975.3	1673.6	A
80.7	417.9	-337.3	249.3	425.9	1140.0	-434.3	C
626.4	1012.2	-385.7	819.3	549.4	533.6	-0.0	AC
84.9	74.2	10.8	79.6	570.0	-557.8	-1719.7	D
346.3	346.3	0.0	346.3	570.0	123.5	-606.5	AD
130.9	151.7	-20.9	141.3	266.8	-0.0	681.3	CD
816.2	0.0	816.2	408.1	266.8	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	418.4	-0.0	-108.6	-429.9	-151.6	170.3
Error Variance	180665.6					
Variance of Mean	90332.8					
Stand. Deviation	300.6					
(Signif. if > +-1)						
@90%CB,	0.9	-0.0	-0.2	-1.0	-0.3	0.4
@95%CB,	0.7	-0.0	-0.2	-0.7	-0.3	0.3
@99%CB,	0.4	-0.0	-0.1	-0.4	-0.1	0.2

"YATES" table for stove and rate for
2-METHYL FURAN

MEAN VALUE	1	2	
1644.4	2172.6	2292.1	Total
528.2	119.5	-1076.5	B
39.9	-1116.2	-2053.1	D
79.6	39.6	1155.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	-538.3	-1026.6	577.9
Error Variance	180665.6		
Variance of Mean	135499.2		
Stand. Deviation	425.0		
Signif. if > +-1	-0.9	-1.6	0.9
Signif. if > +-1	-0.6	-1.2	0.7
Signif. if > +-1	-0.4	-0.7	0.4

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2,5-DIMETHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
241.8	17.5	224.3	129.6	398.8	674.0	902.8	Total
269.2	269.2	0.0	269.2	275.1	228.8	404.5	A
16.9	118.7	-101.9	67.8	108.4	279.1	-111.7	C
149.1	265.6	-116.5	207.4	120.4	125.4	0.0	AC
27.6	18.1	9.5	22.9	139.6	-123.7	-445.2	D
85.6	85.6	0.0	85.6	139.6	11.9	-153.7	AD
29.5	28.2	1.3	28.8	62.7	0.0	135.6	CD
183.1	0.0	183.1	91.5	62.7	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	101.1	0.0	-27.9	-111.3	-38.4	33.9
Error Variance	10786.8					
Variance of Mean	5393.4					
Stand. Deviation	73.4					
(Signif. if > +-1)						
@90%CB,	0.9	0.0	-0.5	-1.0	-0.4	0.5
@95%CB,	0.7	0.0	-0.2	-0.8	-0.3	0.2
@99%CB,	0.4	0.0	-0.1	-0.5	-0.2	0.1

"YATES" table for stove and rate for
2,5-DIMETHYL FURAN

MEAN VALUE	1	2	
15.0	144.6	180.5	Total
129.6	35.8	124.5	B
13.0	114.6	-108.8	D
22.9	9.9	-104.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	62.3	-54.4	-52.4
Error Variance	10786.8		
Variance of Mean	8090.1		
Stand. Deviation	103.9		
Signif. if > +-1	0.4	-0.4	-0.3
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FURFURAL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
502.7	111.9	390.8	307.3	934.1	1815.9	2485.0	Total
626.9	626.9	0.0	626.9	881.8	669.1	712.7	A
60.7	501.5	-440.8	281.1	222.8	639.2	171.2	C
384.5	816.9	-432.5	600.7	446.4	73.5	-0.0	AC
88.4	97.7	-9.3	93.0	319.6	-52.4	-1146.8	D
129.8	129.8	0.0	129.8	319.6	223.6	-565.7	AD
282.8	126.8	155.9	204.8	36.7	0.0	275.9	CD
483.1	0.0	483.1	241.5	36.7	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	178.2	-0.0	42.8	-286.7	-141.4	69.0
Error Variance	76753.5					
Variance of Mean	38376.7					
Stand. Deviation	195.9					
(Signif. if > +-1)						
@90%CB,	0.6	-0.0	0.1	-1.0	-0.5	0.2
@95%CB,	0.5	-0.0	0.1	-0.7	-0.4	0.2
@99%CB,	0.3	-0.0	0.1	-0.4	-0.2	0.1

"YATES" table for stove and rate for FURFURAL

MEAN VALUE	1	2	
48.0	355.2	510.5	Total
307.3	155.3	290.0	B
62.3	259.3	-199.9	D
93.0	30.7	-228.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	145.0	-100.0	-114.3
Error Variance	76753.5		
Variance of Mean	57565.1		
Stand. Deviation	277.0		
Signif. if > +-1	0.4	-0.2	-0.3
Signif. if > +-1	0.3	-0.2	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for O-XYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
160.2	198.0	-37.8	179.1	516.4	780.8	1190.7	Total
337.3	337.3	0.0	337.3	264.4	409.9	-260.8	A
69.8	325.0	-255.1	197.4	0.0	27.8	157.9	C
49.4	84.6	-35.2	67.0	409.9	-288.6	-577.1	AC
0.0	0.0	0.0	0.0	158.2	-252.0	-370.9	D
0.0	0.0	0.0	0.0	-130.4	409.9	-316.3	AD
488.2	210.2	278.0	349.2	0.0	-288.6	661.8	CD
121.3	0.0	121.3	60.7	-288.6	-288.6	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-65.2	-144.3	39.5	-92.7	-79.1	165.5
Error Variance	8246.6					
Variance of Mean	4123.3					
Stand. Deviation	64.2					
(Signif. if > +-1)						
@90%CB,	-0.7	-1.5	0.4	-1.0	-0.8	1.7
@95%CB,	-0.5	-1.1	0.3	-0.7	-0.6	1.3
@99%CB,	-0.3	-0.7	0.2	-0.4	-0.4	0.8

"YATES" table for stove and rate for O-XYLENE

MEAN VALUE	1	2	
95.2	274.3	403.4	Total
179.1	129.1	-45.2	B
129.1	83.9	-145.3	D
0.0	-129.1	-212.9	BD

	B Stove	D Rate	BD
Main Effects	-22.6	-72.6	-106.5
Error Variance	8246.6		
Variance of Mean	6185.0		
Stand. Deviation	90.8		
Signif. if > +-1	-0.2	-0.5	-0.8
Signif. if > +-1	-0.1	-0.4	-0.6
Signif. if > +-1	-0.1	-0.2	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for 167.0

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
230.0	484.0	-254.0	357.0	700.5	1245.0	2329.0	Total
343.5	343.5	0.0	343.5	544.5	1084.0	-171.0	A
221.0	337.0	-116.0	279.0	526.0	-27.0	-124.0	C
190.0	341.0	-151.0	265.5	558.0	-144.0	0.0	AC
539.0	59.0	480.0	299.0	-13.5	-156.0	-161.0	D
227.0	227.0	0.0	227.0	-13.5	32.0	-117.0	AD
243.0	387.0	-144.0	315.0	-72.0	0.0	188.0	CD
251.0	235.0	16.0	243.0	-72.0	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-42.8	0.0	-31.0	-40.3	-29.3	47.0
Error Variance	33142.9					
Variance of Mean	16571.5					
Stand. Deviation	128.7					
(Signif. if > +-1)						
@90%CB,	-0.2	0.0	-0.2	-0.2	-0.2	0.2
@95%CB,	-0.2	0.0	-0.1	-0.2	-0.1	0.2
@99%CB,	-0.1	0.0	-0.1	-0.1	-0.1	0.1

"YATES" table for stove and rate for 167.0

MEAN VALUE	1	2	
150.0	507.0	806.0	Total
357.0	299.0	506.0	B
0.0	207.0	-208.0	D
299.0	299.0	92.0	BD

	B Stove	D Rate	BD
Main Effects	253.0	-104.0	46.0
Error Variance	33142.9		
Variance of Mean	24857.2		
Stand. Deviation	182.1		
Signif. if > +-1	0.9	-0.4	0.2
Signif. if > +-1	0.7	-0.3	0.1
Signif. if > +-1	0.4	-0.2	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
GRAV (g/m3)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
2.8	0.5	2.3	1.7	3.8	6.3	8.9	Total
2.1	2.1	0.0	2.1	2.5	2.7	1.6	A
0.4	1.6	-1.2	1.0	1.1	0.8	-0.8	C
1.2	1.7	-0.5	1.5	1.6	0.8	0.0	AC
0.3	0.4	-0.0	0.3	0.4	-1.3	-3.6	D
0.7	0.7	0.0	0.7	0.4	0.5	-0.1	AD
0.6	0.6	0.0	0.6	0.4	0.0	1.8	CD
1.5	0.4	1.1	1.0	0.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.4	0.0	-0.2	-0.9	-0.0	0.4
Error Variance	0.8					
Variance of Mean	0.4					
Stand. Deviation	0.6					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	-0.2	-0.9	-0.0	0.5
@95%CB,	0.3	0.0	-0.2	-0.7	-0.0	0.3
@99%CB,	0.2	0.0	-0.1	-0.4	-0.0	0.2

"YATES" table for stove and rate for
GRAV (g/m3)

MEAN VALUE	1	2	
0.3	2.0	2.5	Total
1.7	0.5	1.5	B
0.2	1.3	-1.5	D
0.3	0.2	-1.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.8	-0.8	-0.6
Error Variance	0.8		
Variance of Mean	0.6		
Stand. Deviation	0.9		
Signif. if > +-1	0.6	-0.6	-0.4
Signif. if > +-1	0.4	-0.4	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TCO (g/m3)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.8	0.3	0.5	0.6	1.0	1.6	2.5	Total
0.4	0.4	0.0	0.4	0.7	0.9	-0.5	A
0.2	0.7	-0.5	0.4	0.3	-0.3	0.0	C
0.3	0.2	0.1	0.3	0.6	-0.2	0.0	AC
0.2	0.2	-0.0	0.2	-0.2	-0.3	-0.8	D
0.1	0.1	0.0	0.1	-0.2	0.3	0.1	AD
0.3	0.3	0.0	0.3	-0.1	0.0	0.5	CD
0.3	0.2	0.1	0.2	-0.1	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.1	0.0	0.0	-0.2	0.0	0.1
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	-0.5	0.0	0.0	-0.8	0.1	0.6
@95%CB,	-0.4	0.0	0.0	-0.6	0.1	0.4
@99%CB,	-0.2	0.0	0.0	-0.4	0.1	0.3

"YATES" table for stove and rate for TCO (g/m3)

MEAN VALUE	1	2	
0.1	0.7	1.3	Total
0.6	0.6	0.2	B
0.4	0.4	-0.1	D
0.2	-0.2	-0.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.1	-0.1	-0.3
Error Variance	0.1		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	0.4	-0.2	-0.9
Signif. if > +-1	0.3	-0.2	-0.6
Signif. if > +-1	0.2	-0.1	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for GRAV+TCO (g/m3)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3.7	0.8	2.8	2.2	4.7	7.9	11.4	Total
2.5	2.5	0.0	2.5	3.2	3.5	1.1	A
0.6	2.3	-1.7	1.5	1.4	0.5	-0.8	C
1.5	1.9	-0.4	1.7	2.2	0.6	0.0	AC
0.5	0.5	-0.0	0.5	0.3	-1.6	-4.4	D
0.8	0.8	0.0	0.8	0.3	0.8	0.1	AD
0.9	0.9	0.0	0.9	0.3	0.0	2.3	CD
1.8	0.6	1.2	1.2	0.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.3	0.0	-0.2	-1.1	0.0	0.6
Error Variance	1.3					
Variance of Mean	0.6					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.2	-0.9	0.0	0.5
@95%CB,	0.2	0.0	-0.1	-0.7	0.0	0.4
@99%CB,	0.1	0.0	-0.1	-0.4	0.0	0.2

"YATES" table for stove and rate for GRAV+TCO (g/m3)

MEAN VALUE	1	2	
0.5	2.7	3.8	Total
2.2	1.1	1.8	B
0.5	1.8	-1.6	D
0.5	0.0	-1.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.9	-0.8	-0.9
Error Variance	1.3		
Variance of Mean	0.9		
Stand. Deviation	1.1		
Signif. if > +-1	0.5	-0.5	-0.5
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL CAPTURE (g/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
50.7	11.2	39.5	30.9	74.1	128.1	211.7	Total
43.2	43.2	0.0	43.2	53.9	83.6	39.0	A
10.9	30.7	-19.8	20.8	31.4	24.6	0.7	C
31.5	34.7	-3.2	33.1	52.3	14.4	0.0	AC
12.9	11.3	1.5	12.1	12.3	-20.2	-44.4	D
19.3	19.3	0.0	19.3	12.3	20.9	-10.3	AD
22.5	22.5	0.0	22.5	7.2	0.0	41.1	CD
43.6	15.9	27.7	29.7	7.2	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	9.7	0.0	0.2	-11.1	-2.6	10.3
Error Variance	273.4					
Variance of Mean	136.7					
Stand. Deviation	11.7					
(Signif. if > +-1)						
@90%CB,	0.6	0.0	0.0	-0.6	-0.1	0.6
@95%CB,	0.4	0.0	0.0	-0.5	-0.1	0.4
@99%CB,	0.2	0.0	0.0	-0.3	-0.1	0.3

"YATES" table for stove and rate for
TOTAL CAPTURE (g/hr)

MEAN VALUE	1	2	
6.2	37.1	57.3	Total
30.9	20.2	28.8	B
8.0	24.7	-17.0	D
12.1	4.1	-20.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.4	-8.5	-10.3
Error Variance	273.4		
Variance of Mean	205.0		
Stand. Deviation	16.5		
Signif. if > +-1	0.6	-0.3	-0.4
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.3	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for GRAV (g/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
31.5	6.1	25.4	18.8	47.7	80.1	129.5	Total
28.8	28.8	0.0	28.8	32.4	49.4	32.2	A
5.0	17.4	-12.4	11.2	19.1	20.0	-4.0	C
18.7	23.7	-5.0	21.2	30.3	12.1	-0.0	AC
6.5	6.6	-0.1	6.5	10.0	-15.3	-30.6	D
12.6	12.6	0.0	12.6	10.0	11.2	-7.9	AD
12.1	12.1	0.0	12.1	6.1	0.0	26.5	CD
28.7	7.7	21.0	18.2	6.1	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	8.0	-0.0	-1.0	-7.7	-2.0	6.6
Error Variance	126.5					
Variance of Mean	63.3					
Stand. Deviation	8.0					
(Signif. if > +-1)						
@90%CB,	0.7	-0.0	-0.1	-0.7	-0.2	0.6
@95%CB,	0.5	-0.0	-0.1	-0.5	-0.1	0.4
@99%CB,	0.3	-0.0	-0.0	-0.3	-0.1	0.2

"YATES" table for stove and rate for GRAV (g/hr)

MEAN VALUE	1	2	
3.5	22.4	31.1	Total
18.8	8.7	19.6	B
2.2	15.3	-13.6	D
6.5	4.3	-11.0	BD

	B Stove	D Rate	BD
Main Effects	9.8	-6.8	-5.5
Error Variance	126.5		
Variance of Mean	94.9		
Stand. Deviation	11.2		
Signif. if > +-1	0.6	-0.4	-0.3
Signif. if > +-1	0.4	-0.3	-0.2
Signif. if > +-1	0.3	-0.2	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TCO (g/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
9.0	3.6	5.4	6.3	11.9	20.5	36.5	Total
5.6	5.6	0.0	5.6	8.6	16.0	-6.3	A
2.2	7.1	-4.9	4.7	4.9	-1.5	2.9	C
4.7	3.1	1.6	3.9	11.1	-4.8	-0.0	AC
3.6	3.7	-0.1	3.6	-0.8	-3.4	-4.5	D
1.2	1.2	0.0	1.2	-0.8	6.3	-3.3	AD
6.8	6.8	0.0	6.8	-2.4	0.0	9.6	CD
5.9	2.9	3.0	4.4	-2.4	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1.6	-0.0	0.7	-1.1	-0.8	2.4
Error Variance	6.5					
Variance of Mean	3.3					
Stand. Deviation	1.8					
(Signif. if > +-1)						
@90%CB,	-0.6	-0.0	0.3	-0.4	-0.3	0.9
@95%CB,	-0.4	-0.0	0.2	-0.3	-0.2	0.7
@99%CB,	-0.3	-0.0	0.1	-0.2	-0.1	0.4

"YATES" table for stove and rate for TCO (g/hr)

MEAN VALUE	1	2	
1.4	7.8	16.3	Total
6.3	8.5	3.6	B
4.9	4.9	0.8	D
3.6	-1.3	-6.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.8	0.4	-3.1
Error Variance	6.5		
Variance of Mean	4.9		
Stand. Deviation	2.5		
Signif. if > +-1	0.5	0.1	-0.8
Signif. if > +-1	0.4	0.1	-0.6
Signif. if > +-1	0.2	0.0	-0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for GRAV+TCO (g/hr)

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
40.5	9.8	30.8	25.2	59.6	100.5	166.0	Total
34.4	34.4	0.0	34.4	41.0	65.4	25.9	A
7.2	24.5	-17.3	15.8	23.9	18.5	-1.1	C
23.4	26.8	-3.4	25.1	41.5	7.3	-0.0	AC
10.0	10.2	-0.2	10.1	9.3	-18.6	-35.1	D
13.8	13.8	0.0	13.8	9.3	17.5	-11.2	AD
18.9	18.9	0.0	18.9	3.7	-0.0	36.2	CD
34.6	10.5	24.1	22.6	3.7	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	6.5	-0.0	-0.3	-8.8	-2.8	9.0
Error Variance	183.8					
Variance of Mean	91.9					
Stand. Deviation	9.6					
(Signif. if > +-1)						
@90%CB,	0.5	-0.0	-0.0	-0.6	-0.2	0.6
@95%CB,	0.3	-0.0	-0.0	-0.5	-0.1	0.5
@99%CB,	0.2	-0.0	-0.0	-0.3	-0.1	0.3

"YATES" table for stove and rate for GRAV+TCO (g/hr)

MEAN VALUE	1	2	
5.0	30.1	47.4	Total
25.2	17.3	23.2	B
7.1	20.2	-12.9	D
10.1	3.0	-17.2	BD

	B	D	BD
	Stove	Rate	
Main Effects	11.6	-6.4	-8.6
Error Variance	183.8		
Variance of Mean	137.8		
Stand. Deviation	13.6		
Signif. if > +-1	0.6	-0.3	-0.4
Signif. if > +-1	0.4	-0.2	-0.3
Signif. if > +-1	0.3	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACENAPHTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	1272.5	2544.9	7066.8	Total
1272.5	1272.5	0.0	1272.5	1272.5	4521.9	2544.9	A
0.0	0.0	0.0	0.0	4521.9	2544.9	-4521.9	C
2544.9	0.0	2544.9	1272.5	0.0	0.0	0.0	AC
4521.9	0.0	4521.9	2260.9	1272.5	0.0	1976.9	D
2260.9	2260.9	0.0	2260.9	1272.5	-4521.9	-2544.9	AD
0.0	0.0	0.0	0.0	0.0	0.0	-4521.9	CD
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	636.2	0.0	-1130.5	494.2	-636.2	-1130.5
Error Variance	2692418.7					
Variance of Mean	1346209.4					
Stand. Deviation	1160.3					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	-0.7	0.3	-0.4	-0.7
@95%CB,	0.3	0.0	-0.5	0.2	-0.3	-0.5
@99%CB,	0.2	0.0	-0.3	0.1	-0.2	-0.3

"YATES" table for stove and rate for ACENAPHTHENE

MEAN VALUE	1	2	
0.0	0.0	2260.9	Total
0.0	2260.9	2260.9	B
0.0	0.0	2260.9	D
2260.9	2260.9	2260.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	1130.5	1130.5	1130.5
Error Variance	2692418.7		
Variance of Mean	2019314.1		
Stand. Deviation	1640.9		
Signif. if > +-1	0.5	0.5	0.5
Signif. if > +-1	0.3	0.3	0.3
Signif. if > +-1	0.2	0.2	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for CHRYSENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
169.0	1559.2	-1390.2	864.1	864.1	4334.9	7644.8	Total
0.0	0.0	0.0	0.0	3470.8	3309.9	-3372.7	A
616.4	6299.0	-5682.7	3457.7	2444.9	-4308.8	1026.7	C
0.0	26.1	-26.1	13.1	865.0	936.1	-5161.0	AC
587.4	99.2	488.1	343.3	-864.1	2606.6	-1025.0	D
2101.6	2101.6	0.0	2101.6	-3444.7	-1579.9	5244.9	AD
843.6	843.6	0.0	843.6	1758.3	-2580.5	-4186.6	CD
42.8	0.0	42.8	21.4	-822.2	-2580.5	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-843.2	-1290.3	256.7	-256.3	1311.2	-1046.6
Error Variance	3446610.0					
Variance of Mean	1723305.0					
Stand. Deviation	1312.7					
(Signif. if > +-1)						
@90%CB,	-0.4	-0.7	0.1	-0.1	0.7	-0.5
@95%CB,	-0.3	-0.5	0.1	-0.1	0.5	-0.4
@99%CB,	-0.2	-0.3	0.1	-0.1	0.3	-0.2

"YATES" table for stove and rate for CHRYSENE

MEAN VALUE	1	2	
848.6	1712.7	2950.6	Total
864.1	1237.9	-535.8	B
894.6	15.6	-474.8	D
343.3	-551.3	-566.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	-267.9	-237.4	-283.4
Error Variance	3446610.0		
Variance of Mean	2584957.5		
Stand. Deviation	1856.5		
Signif. if > +-1	-0.1	-0.1	-0.1
Signif. if > +-1	-0.1	-0.1	-0.1
Signif. if > +-1	-0.0	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACENAPHTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	19.6	39.1	125.0	Total
19.6	19.6	0.0	19.6	19.6	85.9	39.1	A
0.0	0.0	0.0	0.0	85.9	39.1	-85.9	C
39.1	0.0	39.1	19.6	0.0	0.0	0.0	AC
85.9	0.0	85.9	42.9	19.6	0.0	46.7	D
42.9	42.9	0.0	42.9	19.6	-85.9	-39.1	AD
0.0	0.0	0.0	0.0	0.0	0.0	-85.9	CD
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	9.8	0.0	-21.5	11.7	-9.8	-21.5
Error Variance	890.0					
Variance of Mean	445.0					
Stand. Deviation	21.1					
(Signif. if > +-1)						
@90%CB,	0.3	0.0	-0.7	0.4	-0.3	-0.7
@95%CB,	0.2	0.0	-0.5	0.3	-0.2	-0.5
@99%CB,	0.1	0.0	-0.3	0.2	-0.1	-0.3

"YATES" table for stove and rate for ACENAPHTHENE

MEAN VALUE	1	2	
0.0	0.0	42.9	Total
0.0	42.9	42.9	B
0.0	0.0	42.9	D
42.9	42.9	42.9	BD

	B Stove	D Rate	BD
Main Effects	21.5	21.5	21.5
Error Variance	890.0		
Variance of Mean	667.5		
Stand. Deviation	29.8		
Signif. if > +-1	0.5	0.5	0.5
Signif. if > +-1	0.4	0.4	0.4
Signif. if > +-1	0.2	0.2	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for CHRYSENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.9	18.7	-16.9	10.3	10.3	47.6	88.0	Total
0.0	0.0	0.0	0.0	37.3	40.4	-54.0	A
7.1	67.0	-59.9	37.1	22.9	-47.2	21.5	C
0.0	0.4	-0.4	0.2	17.5	-6.8	-53.2	AC
11.2	1.9	9.3	6.5	-10.3	27.0	-7.2	D
16.4	16.4	0.0	16.4	-36.9	-5.4	40.4	AD
17.1	17.1	0.0	17.1	9.9	-26.6	-32.4	CD
0.8	0.0	0.8	0.4	-16.7	-26.6	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-13.5	-13.3	5.4	-1.8	10.1	-8.1
Error Variance	395.9					
Variance of Mean	197.9					
Stand. Deviation	14.1					
(Signif. if > +-1)						
@90%CB,	-0.6	-0.6	0.3	-0.1	0.5	-0.4
@95%CB,	-0.5	-0.5	0.2	-0.1	0.4	-0.3
@99%CB,	-0.3	-0.3	0.1	-0.0	0.2	-0.2

"YATES" table for stove and rate for CHRYSENE

MEAN VALUE	1	2	
8.7	19.1	37.5	Total
10.3	18.5	-3.9	B
12.0	1.6	-0.6	D
6.5	-5.5	-7.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	-2.0	-0.3	-3.5
Error Variance	395.9		
Variance of Mean	296.9		
Stand. Deviation	19.9		
Signif. if > +-1	-0.1	-0.0	-0.1
Signif. if > +-1	-0.0	-0.0	-0.1
Signif. if > +-1	-0.0	-0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACENAPHTHYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
237.8	69.6	168.2	153.7	213.1	426.8	740.5	Total
59.3	59.3	0.0	59.3	213.7	313.7	-223.4	A
88.9	219.2	-130.2	154.1	187.1	-188.8	-59.9	C
0.0	119.3	-119.3	59.7	126.6	-34.6	0.0	AC
98.5	105.9	-7.4	102.2	-94.4	0.7	-113.1	D
84.9	84.9	0.0	84.9	-94.4	-60.5	154.2	AD
71.9	71.9	0.0	71.9	-17.3	0.0	-61.2	CD
76.3	33.0	43.4	54.6	-17.3	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-55.8	0.0	-15.0	-28.3	38.5	-15.3
Error Variance	6141.3					
Variance of Mean	3070.7					
Stand. Deviation	55.4					
(Signif. if > +-1)						
@90%CB,	-0.7	0.0	-0.2	-0.3	0.5	-0.2
@95%CB,	-0.5	0.0	-0.1	-0.3	0.3	-0.1
@99%CB,	-0.3	0.0	-0.1	-0.2	0.2	-0.1

"YATES" table for stove and rate for ACENAPHTHYLENE

MEAN VALUE	1	2	
52.1	205.8	369.3	Total
153.7	163.6	142.5	B
61.4	101.7	-42.2	D
102.2	40.8	-60.8	BD

	B Stove	D Rate	BD
Main Effects	71.3	-21.1	-30.4
Error Variance	6141.3		
Variance of Mean	4606.0		
Stand. Deviation	78.4		
Signif. if > +-1	0.6	-0.2	-0.3
Signif. if > +-1	0.5	-0.1	-0.2
Signif. if > +-1	0.3	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ACENAPHTHENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.0	0.0	0.0	0.0	14.5	29.0	56.0	Total
14.5	14.5	0.0	14.5	14.5	27.0	29.0	A
0.0	0.0	0.0	0.0	27.0	29.0	-27.0	C
29.0	0.0	29.0	14.5	0.0	0.0	0.0	AC
27.0	0.0	27.0	13.5	14.5	0.0	-2.0	D
13.5	13.5	0.0	13.5	14.5	-27.0	-29.0	AD
0.0	0.0	0.0	0.0	0.0	0.0	-27.0	CD
0.0	0.0	0.0	0.0	0.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	7.2	0.0	-6.7	-0.5	-7.2	-6.7
Error Variance	156.8					
Variance of Mean	78.4					
Stand. Deviation	8.9					
(Signif. if > +-1)						
@90%CB,	0.6	0.0	-0.5	-0.0	-0.6	-0.5
@95%CB,	0.4	0.0	-0.4	-0.0	-0.4	-0.4
@99%CB,	0.2	0.0	-0.2	-0.0	-0.2	-0.2

"YATES" table for stove and rate for ACENAPHTHENE

MEAN VALUE	1	2	
0.0	0.0	13.5	Total
0.0	13.5	13.5	B
0.0	0.0	13.5	D
13.5	13.5	13.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	6.7	6.7	6.7
Error Variance	156.8		
Variance of Mean	117.6		
Stand. Deviation	12.5		
Signif. if > +-1	0.4	0.4	0.4
Signif. if > +-1	0.3	0.3	0.3
Signif. if > +-1	0.2	0.2	0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for CHRYSENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1.6	11.5	-9.9	6.5	6.5	28.9	48.9	Total
0.0	0.0	0.0	0.0	22.4	19.9	-24.5	A
4.3	40.1	-35.8	22.2	13.9	-28.6	7.9	C
0.0	0.3	-0.3	0.1	6.0	4.1	-31.1	AC
3.5	0.6	2.9	2.0	-6.5	15.8	-9.0	D
11.9	11.9	0.0	11.9	-22.1	-7.9	32.8	AD
5.9	5.9	0.0	5.9	9.8	-15.5	-23.8	CD
0.3	0.0	0.3	0.2	-5.7	-15.5	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-6.1	-7.8	2.0	-2.2	8.2	-5.9
Error Variance	139.1					
Variance of Mean	69.6					
Stand. Deviation	8.3					
(Signif. if > +-1)						
@90%CB,	-0.5	-0.6	0.2	-0.2	0.7	-0.5
@95%CB,	-0.4	-0.5	0.1	-0.1	0.5	-0.4
@99%CB,	-0.2	-0.3	0.1	-0.1	0.3	-0.2

"YATES" table for stove and rate for CHRYSENE

MEAN VALUE	1	2	
6.6	13.1	21.3	Total
6.5	8.2	-4.2	B
6.2	-0.0	-4.9	D
2.0	-4.1	-4.1	BD

	B Stove	D Rate	BD
Main Effects	-2.1	-2.4	-2.0
Error Variance	139.1		
Variance of Mean	104.3		
Stand. Deviation	11.8		
Signif. if > +-1	-0.1	-0.1	-0.1
Signif. if > +-1	-0.1	-0.1	-0.1
Signif. if > +-1	-0.1	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ba BARIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1221.0	32.6	1188.4	626.8	1343.2	2183.1	4278.4	Total
716.4	716.4	0.0	716.4	839.9	2095.2	248.3	A
0.0	750.4	-750.4	375.2	1434.6	179.2	-1277.3	C
56.4	873.1	-816.7	464.8	660.6	69.1	-0.0	AC
973.3	426.8	546.5	700.0	89.6	-503.2	-87.9	D
734.6	734.6	0.0	734.6	89.6	-774.0	-110.1	AD
313.0	313.0	0.0	313.0	34.6	-0.0	-270.8	CD
566.7	128.5	438.2	347.6	34.6	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	62.1	-0.0	-319.3	-22.0	-27.5	-67.7
Error Variance	313296.2					
Variance of Mean	156648.1					
Stand. Deviation	395.8					
(Signif. if > +-1)						
@90%CB,	0.1	-0.0	-0.5	-0.0	-0.0	-0.1
@95%CB,	0.1	-0.0	-0.4	-0.0	-0.0	-0.1
@99%CB,	0.0	-0.0	-0.2	-0.0	-0.0	-0.1

"YATES" table for stove and rate for
Ba BARIUM

MEAN VALUE	1	2	
0.0	626.8	1562.7	Total
626.8	935.9	1091.0	B
235.9	626.8	309.1	D
700.0	464.2	-162.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	545.5	154.6	-81.3
Error Variance	313296.2		
Variance of Mean	234972.1		
Stand. Deviation	559.7		
Signif. if > +-1	0.7	0.2	-0.1
Signif. if > +-1	0.5	0.1	-0.1
Signif. if > +-1	0.3	0.1	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ca CALCIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1295.6	48.9	1246.7	672.3	1576.6	2297.0	4527.3	Total
904.3	904.3	0.0	904.3	720.4	2230.3	1215.4	A
35.9	452.4	-416.5	244.2	1612.8	464.2	-1851.5	C
132.7	819.8	-687.1	476.3	617.5	751.2	-0.0	AC
857.8	379.4	478.4	618.6	232.1	-856.2	-66.7	D
994.2	994.2	0.0	994.2	232.1	-995.3	287.1	AD
120.9	120.9	0.0	120.9	375.6	-0.0	-139.2	CD
633.3	359.8	273.6	496.5	375.6	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	303.8	-0.0	-462.9	-16.7	71.8	-34.8
Error Variance	250349.3					
Variance of Mean	125174.7					
Stand. Deviation	353.8					
(Signif. if > +-1)						
@90%CB,	0.6	-0.0	-0.9	-0.0	0.1	-0.1
@95%CB,	0.4	-0.0	-0.6	-0.0	0.1	-0.0
@99%CB,	0.3	-0.0	-0.4	-0.0	0.1	-0.0

"YATES" table for stove and rate for
Ca CALCIUM

MEAN VALUE	1	2	
245.5	917.7	1715.6	Total
672.3	797.9	866.1	B
179.3	426.8	-119.9	D
618.6	439.3	12.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	433.1	-59.9	6.3
Error Variance	250349.3		
Variance of Mean	187762.0		
Stand. Deviation	500.3		
Signif. if > +-1	0.6	-0.1	0.0
Signif. if > +-1	0.4	-0.1	0.0
Signif. if > +-1	0.3	-0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Cu COPPER

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
32.3	0.0	32.3	16.2	40.0	62.3	105.5	Total
23.8	23.8	0.0	23.8	22.3	43.2	33.7	A
0.0	14.7	-14.7	7.4	34.0	15.3	-42.4	C
3.3	26.7	-23.3	15.0	9.2	18.5	0.0	AC
24.7	0.0	24.7	12.4	7.6	-17.6	-19.1	D
21.6	21.6	0.0	21.6	7.6	-24.7	3.2	AD
0.0	0.0	0.0	0.0	9.2	-0.0	-7.1	CD
13.3	5.1	8.2	9.2	9.2	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	8.4	0.0	-10.6	-4.8	0.8	-1.8
Error Variance	248.6					
Variance of Mean	124.3					
Stand. Deviation	11.1					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-0.6	-0.3	0.0	-0.1
@95%CB,	0.4	0.0	-0.5	-0.2	0.0	-0.1
@99%CB,	0.2	0.0	-0.3	-0.1	0.0	-0.0

"YATES" table for stove and rate for
Cu COPPER

MEAN VALUE	1	2	
0.0	16.2	28.5	Total
16.2	12.4	28.5	B
0.0	16.2	-3.8	D
12.4	12.4	-3.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.3	-1.9	-1.9
Error Variance	248.6		
Variance of Mean	186.4		
Stand. Deviation	15.8		
Signif. if > +-1	0.6	-0.1	-0.1
Signif. if > +-1	0.4	-0.1	-0.1
Signif. if > +-1	0.3	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Fe IRON

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
79.6	0.0	79.6	39.8	114.6	182.8	300.7	Total
74.9	74.9	0.0	74.9	68.2	117.9	124.7	A
0.0	33.1	-33.1	16.6	76.4	70.1	-81.4	C
13.3	90.0	-76.7	51.6	41.5	54.5	0.0	AC
41.2	7.9	33.3	24.6	35.1	-46.5	-64.9	D
51.8	51.8	0.0	51.8	35.1	-34.9	-15.6	AD
7.1	7.1	0.0	7.1	27.3	0.0	11.6	CD
53.3	15.4	37.9	34.4	27.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	31.2	0.0	-20.3	-16.2	-3.9	2.9
Error Variance	1586.1					
Variance of Mean	793.1					
Stand. Deviation	28.2					
(Signif. if > +-1)						
@90%CB,	0.7	0.0	-0.5	-0.4	-0.1	0.1
@95%CB,	0.5	0.0	-0.4	-0.3	-0.1	0.1
@99%CB,	0.3	0.0	-0.2	-0.2	-0.0	0.0

"YATES" table for stove and rate for
Fe IRON

MEAN VALUE	1	2	
5.8	45.6	84.4	Total
39.8	38.7	44.4	B
14.2	33.9	-6.9	D
24.6	10.4	-23.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	22.2	-3.5	-11.8
Error Variance	1586.1		
Variance of Mean	1189.6		
Stand. Deviation	39.8		
Signif. if > +-1	0.4	-0.1	-0.2
Signif. if > +-1	0.3	-0.0	-0.1
Signif. if > +-1	0.2	-0.0	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Mn MANGANESE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
24.9	4.1	20.8	14.5	33.4	48.9	93.8	Total
18.9	18.9	0.0	18.9	15.5	44.9	23.5	A
0.0	11.0	-11.0	5.5	23.4	8.9	-19.8	C
6.6	13.3	-6.7	10.0	21.5	14.5	-0.0	AC
8.2	7.9	0.3	8.1	4.5	-17.9	-4.0	D
15.3	15.3	0.0	15.3	4.5	-1.9	5.6	AD
7.1	7.1	0.0	7.1	7.3	-0.0	16.0	CD
13.3	15.4	-2.1	14.4	7.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	5.9	-0.0	-5.0	-1.0	1.4	4.0
Error Variance	60.3					
Variance of Mean	30.2					
Stand. Deviation	5.5					
(Signif. if > +-1)						
@90%CB,	0.7	-0.0	-0.6	-0.1	0.2	0.5
@95%CB,	0.5	-0.0	-0.4	-0.1	0.1	0.4
@99%CB,	0.3	-0.0	-0.3	-0.1	0.1	0.2

"YATES" table for stove and rate for
Mn MANGANESE

MEAN VALUE	1	2	
20.5	34.9	52.4	Total
14.5	17.5	-7.3	B
9.4	-6.0	-17.4	D
8.1	-1.4	4.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	-3.7	-8.7	2.3
Error Variance	60.3		
Variance of Mean	45.2		
Stand. Deviation	7.8		
Signif. if > +-1	-0.3	-0.8	0.2
Signif. if > +-1	-0.2	-0.6	0.1
Signif. if > +-1	-0.1	-0.3	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Na SODIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
4849.1	338.4	4510.8	2593.7	6002.5	9767.2	15519.9	Total
3408.8	3408.8	0.0	3408.8	3764.6	5752.7	3728.0	A
135.7	2813.8	-2678.1	1474.8	3380.5	1630.1	-3246.2	C
570.6	4009.0	-3438.4	2289.8	2372.2	2097.9	-0.0	AC
0.0	2331.6	-2331.6	1165.8	815.0	-2237.9	-4014.4	D
2214.7	2214.7	0.0	2214.7	815.0	-1008.3	467.8	AD
661.6	661.6	0.0	661.6	1049.0	0.0	1229.6	CD
2886.7	534.5	2352.2	1710.6	1049.0	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	932.0	-0.0	-811.6	-1003.6	117.0	307.4
Error Variance	5031065.8					
Variance of Mean	2515532.9					
Stand. Deviation	1586.0					
(Signif. if > +-1)						
@90%CB,	0.4	-0.0	-0.3	-0.4	0.0	0.1
@95%CB,	0.3	-0.0	-0.3	-0.3	0.0	0.1
@99%CB,	0.2	-0.0	-0.2	-0.2	0.0	0.1

"YATES" table for stove and rate for
Na SODIUM

MEAN VALUE	1	2	
0.0	2593.7	4179.4	Total
2593.7	1585.6	3339.7	B
419.9	2593.7	-1008.1	D
1165.8	745.9	-1847.8	BD

	B Stove	D Rate	BD
Main Effects	1669.8	-504.1	-923.9
Error Variance	5031065.8		
Variance of Mean	3773299.3		
Stand. Deviation	2243.0		
Signif. if > +-1	0.5	-0.2	-0.3
Signif. if > +-1	0.4	-0.1	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Sr STRONTIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
17.4	0.0	17.4	8.7	18.4	34.1	62.0	Total
9.7	9.7	0.0	9.7	15.7	28.0	13.7	A
0.0	14.7	-14.7	7.4	22.1	1.9	-18.8	C
3.3	13.3	-10.0	8.3	5.9	11.8	-0.0	AC
8.2	7.9	0.3	8.1	1.0	-2.7	-6.1	D
14.0	14.0	0.0	14.0	1.0	-16.2	9.9	AD
0.0	0.0	0.0	0.0	5.9	0.0	-13.5	CD
6.7	5.1	1.5	5.9	5.9	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	3.4	-0.0	-4.7	-1.5	2.5	-3.4
Error Variance	62.2					
Variance of Mean	31.1					
Stand. Deviation	5.6					
(Signif. if > +-1)						
@90%CB,	0.4	-0.0	-0.6	-0.2	0.3	-0.4
@95%CB,	0.3	-0.0	-0.4	-0.1	0.2	-0.3
@99%CB,	0.2	-0.0	-0.3	-0.1	0.1	-0.2

"YATES" table for stove and rate for
Sr STRONTIUM

MEAN VALUE	1	2	
2.9	11.6	29.1	Total
8.7	17.5	4.4	B
9.4	5.8	5.9	D
8.1	-1.4	-7.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	2.2	2.9	-3.6
Error Variance	62.2		
Variance of Mean	46.7		
Stand. Deviation	7.9		
Signif. if > +-1	0.2	0.3	-0.3
Signif. if > +-1	0.1	0.2	-0.2
Signif. if > +-1	0.1	0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ti TITANIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
7.5	0.0	7.5	3.7	10.8	14.1	22.4	Total
7.1	7.1	0.0	7.1	3.3	8.2	6.7	A
0.0	0.0	0.0	0.0	8.2	6.7	-15.7	C
0.0	6.7	-6.7	3.3	0.0	0.0	0.0	AC
8.2	0.0	8.2	4.1	3.3	-7.5	-5.9	D
4.1	4.1	0.0	4.1	3.3	-8.2	-6.7	AD
0.0	0.0	0.0	0.0	0.0	0.0	-0.8	CD
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	1.7	0.0	-3.9	-1.5	-1.7	-0.2
Error Variance	16.8					
Variance of Mean	8.4					
Stand. Deviation	2.9					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	-0.9	-0.3	-0.4	-0.0
@95%CB,	0.3	0.0	-0.7	-0.3	-0.3	-0.0
@99%CB,	0.2	0.0	-0.4	-0.2	-0.2	-0.0

"YATES" table for stove and rate for
Ti TITANIUM

MEAN VALUE	1	2	
0.0	3.7	7.9	Total
3.7	4.1	7.9	B
0.0	3.7	0.4	D
4.1	4.1	0.4	BD

	B Stove	D Rate	BD
Main Effects	3.9	0.2	0.2
Error Variance	16.8		
Variance of Mean	12.6		
Stand. Deviation	4.1		
Signif. if > +-1	0.6	0.0	0.0
Signif. if > +-1	0.5	0.0	0.0
Signif. if > +-1	0.3	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Zn ZINC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
8101.8	57.1	8044.7	4079.4	8109.1	8815.2	10387.0	Total
4029.6	4029.6	0.0	4029.6	706.1	1571.8	25.4	A
24.0	732.0	-708.0	378.0	1153.6	-99.5	-8138.3	C
29.9	626.5	-596.7	328.2	418.2	125.0	0.0	AC
767.1	324.0	443.0	545.6	-49.8	-7402.9	-7243.4	D
608.1	608.1	0.0	608.1	-49.8	-735.4	224.5	AD
177.9	177.9	0.0	177.9	62.5	0.0	6667.5	CD
393.3	87.4	306.0	240.4	62.5	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	6.4	0.0	-2034.6	-1810.8	56.1	1666.9
Error Variance	6586417.0					
Variance of Mean	3293208.5					
Stand. Deviation	1814.7					
(Signif. if > +-1)						
@90%CB,	0.0	0.0	-0.8	-0.7	0.0	0.6
@95%CB,	0.0	0.0	-0.6	-0.5	0.0	0.5
@99%CB,	0.0	0.0	-0.3	-0.3	0.0	0.3

"YATES" table for stove and rate for
Zn ZINC

MEAN VALUE	1	2	
0.0	4079.4	4931.6	Total
4079.4	852.2	4318.3	B
306.6	4079.4	-3227.2	D
545.6	238.9	-3840.5	BD

	B Stove	D Rate	BD
Main Effects	2159.2	-1613.6	-1920.2
Error Variance	6586417.0		
Variance of Mean	4939812.8		
Stand. Deviation	2566.4		
Signif. if > +-1	0.6	-0.4	-0.5
Signif. if > +-1	0.4	-0.3	-0.4
Signif. if > +-1	0.3	-0.2	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ba BARIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
13.5	0.4	13.1	7.0	16.5	27.0	66.4	Total
9.5	9.5	0.0	9.5	10.6	39.3	5.4	A
0.0	8.0	-8.0	4.0	26.6	5.1	-19.7	C
0.9	12.3	-11.4	6.6	12.8	0.2	0.0	AC
18.5	8.0	10.5	13.2	2.6	-5.9	12.3	D
13.3	13.3	0.0	13.3	2.6	-13.8	-4.9	AD
6.3	6.3	0.0	6.3	0.1	0.0	-7.8	CD
10.7	2.2	8.5	6.5	0.1	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	1.3	0.0	-4.9	3.1	-1.2	-2.0
Error Variance	54.9					
Variance of Mean	27.4					
Stand. Deviation	5.2					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.6	0.4	-0.2	-0.3
@95%CB,	0.1	0.0	-0.5	0.3	-0.1	-0.2
@99%CB,	0.1	0.0	-0.3	0.2	-0.1	-0.1

"YATES" table for stove and rate for
Ba BARIUM

MEAN VALUE	1	2	
0.0	7.0	23.3	Total
7.0	16.4	17.0	B
3.2	7.0	9.4	D
13.2	10.1	3.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	8.5	4.7	1.6
Error Variance	54.9		
Variance of Mean	41.1		
Stand. Deviation	7.4		
Signif. if > +-1	0.8	0.4	0.1
Signif. if > +-1	0.6	0.3	0.1
Signif. if > +-1	0.3	0.2	0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Cu COPPER

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.4	0.0	0.4	0.2	0.5	0.8	1.6	Total
0.3	0.3	0.0	0.3	0.3	0.8	0.6	A
0.0	0.2	-0.2	0.1	0.6	0.3	-0.7	C
0.1	0.4	-0.3	0.2	0.2	0.3	-0.0	AC
0.5	0.0	0.5	0.2	0.1	-0.2	0.0	D
0.4	0.4	0.0	0.4	0.1	-0.5	0.1	AD
0.0	0.0	0.0	0.0	0.2	-0.0	-0.3	CD
0.3	0.1	0.2	0.2	0.2	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.2	-0.0	-0.2	0.0	0.0	-0.1
Error Variance	0.1					
Variance of Mean	0.0					
Stand. Deviation	0.2					
(Signif. if > +-1)						
@90%CB,	0.6	-0.0	-0.7	0.0	0.1	-0.3
@95%CB,	0.5	-0.0	-0.5	0.0	0.1	-0.2
@99%CB,	0.3	-0.0	-0.3	0.0	0.0	-0.1

"YATES" table for stove and rate for
Cu COPPER

MEAN VALUE	1	2	
0.0	0.2	0.4	Total
0.2	0.2	0.4	B
0.0	0.2	0.1	D
0.2	0.2	0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.2	0.0	0.0
Error Variance	0.1		
Variance of Mean	0.0		
Stand. Deviation	0.2		
Signif. if > +-1	0.6	0.1	0.1
Signif. if > +-1	0.5	0.1	0.1
Signif. if > +-1	0.3	0.0	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Fe IRON

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.9	0.0	0.9	0.4	1.4	2.3	4.6	Total
1.0	1.0	0.0	1.0	0.9	2.2	2.1	A
0.0	0.4	-0.4	0.2	1.4	1.1	-1.2	C
0.2	1.3	-1.1	0.7	0.8	1.0	-0.0	AC
0.8	0.1	0.6	0.5	0.6	-0.5	-0.1	D
1.0	1.0	0.0	1.0	0.6	-0.6	-0.1	AD
0.1	0.1	0.0	0.1	0.5	0.0	-0.1	CD
1.0	0.3	0.7	0.6	0.5	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.5	-0.0	-0.3	-0.0	-0.0	-0.0
Error Variance	0.3					
Variance of Mean	0.1					
Stand. Deviation	0.4					
(Signif. if > +-1)						
@90%CB,	0.9	-0.0	-0.5	-0.1	-0.1	-0.0
@95%CB,	0.7	-0.0	-0.4	-0.0	-0.0	-0.0
@99%CB,	0.4	-0.0	-0.2	-0.0	-0.0	-0.0

"YATES" table for stove and rate for
Fe IRON

MEAN VALUE	1	2	
0.1	0.5	1.2	Total
0.4	0.7	0.7	B
0.2	0.4	0.2	D
0.5	0.3	-0.1	BD

	B Stove	D Rate	BD
Main Effects	0.3	0.1	-0.1
Error Variance	0.3		
Variance of Mean	0.2		
Stand. Deviation	0.5		
Signif. if > +-1	0.4	0.1	-0.1
Signif. if > +-1	0.3	0.1	-0.0
Signif. if > +-1	0.2	0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Na SODIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
53.7	4.1	49.6	28.9	74.6	122.8	230.0	Total
45.7	45.7	0.0	45.7	48.3	107.2	70.4	A
1.6	29.9	-28.4	15.8	61.9	33.5	-43.0	C
8.8	56.3	-47.5	32.5	45.2	36.9	0.0	AC
0.0	43.5	-43.5	21.7	16.8	-26.3	-15.7	D
40.2	40.2	0.0	40.2	16.8	-16.7	3.4	AD
13.4	13.4	0.0	13.4	18.4	0.0	9.6	CD
54.5	9.2	45.3	31.8	18.4	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	17.6	0.0	-10.7	-3.9	0.8	2.4
Error Variance	946.8					
Variance of Mean	473.4					
Stand. Deviation	21.8					
(Signif. if > +-1)						
@90%CB,	0.5	0.0	-0.3	-0.1	0.0	0.1
@95%CB,	0.4	0.0	-0.2	-0.1	0.0	0.1
@99%CB,	0.2	0.0	-0.1	-0.1	0.0	0.0

"YATES" table for stove and rate for
Na SODIUM

MEAN VALUE	1	2	
0.0	28.9	56.3	Total
28.9	27.4	45.0	B
5.6	28.9	-1.5	D
21.7	16.1	-12.8	BD

	B Stove	D Rate	BD
Main Effects	22.5	-0.8	-6.4
Error Variance	946.8		
Variance of Mean	710.1		
Stand. Deviation	30.8		
Signif. if > +-1	0.5	-0.0	-0.1
Signif. if > +-1	0.4	-0.0	-0.1
Signif. if > +-1	0.2	-0.0	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Sn TIN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.2	0.0	0.2	0.1	0.5	0.7	0.9	Total
0.3	0.3	0.0	0.3	0.2	0.2	0.5	A
0.0	0.0	0.0	0.0	0.2	0.5	-0.4	C
0.1	0.4	-0.3	0.2	0.0	0.0	0.0	AC
0.2	0.0	0.2	0.1	0.2	-0.2	-0.5	D
0.1	0.1	0.0	0.1	0.2	-0.2	-0.5	AD
0.0	0.0	0.0	0.0	0.0	0.0	0.1	CD
0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.1	0.0	-0.1	-0.1	-0.1	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	0.9	0.0	-0.7	-1.1	-0.9	0.1
@95%CB,	0.7	0.0	-0.5	-0.8	-0.7	0.1
@99%CB,	0.4	0.0	-0.3	-0.5	-0.4	0.1

"YATES" table for stove and rate for
Sn TIN

MEAN VALUE	1	2	
0.0	0.1	0.2	Total
0.1	0.1	0.2	B
0.0	0.1	-0.0	D
0.1	0.1	-0.0	BD

	B Stove	D Rate	BD
Main Effects	0.1	-0.0	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.5	-0.1	-0.1
Signif. if > +-1	0.4	-0.1	-0.1
Signif. if > +-1	0.2	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Sr STRONTIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.2	0.0	0.2	0.1	0.2	0.4	0.9	Total
0.1	0.1	0.0	0.1	0.2	0.5	0.3	A
0.0	0.2	-0.2	0.1	0.4	0.1	-0.3	C
0.1	0.2	-0.1	0.1	0.1	0.2	-0.0	AC
0.2	0.1	0.0	0.2	0.0	-0.0	0.1	D
0.3	0.3	0.0	0.3	0.0	-0.3	0.1	AD
0.0	0.0	0.0	0.0	0.1	0.0	-0.3	CD
0.1	0.1	0.0	0.1	0.1	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	-0.0	-0.1	0.0	0.0	-0.1
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	0.8	-0.0	-0.9	0.2	0.4	-0.7
@95%CB,	0.6	-0.0	-0.7	0.2	0.3	-0.5
@99%CB,	0.3	-0.0	-0.4	0.1	0.2	-0.3

"YATES" table for stove and rate for
Sr STRONTIUM

MEAN VALUE	1	2	
0.0	0.1	0.4	Total
0.1	0.3	0.1	B
0.1	0.1	0.2	D
0.2	0.0	-0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	0.1	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.3	0.6	-0.2
Signif. if > +-1	0.3	0.4	-0.1
Signif. if > +-1	0.2	0.2	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ti TITANIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.1	0.0	0.1	0.0	0.1	0.2	0.3	Total
0.1	0.1	0.0	0.1	0.0	0.2	0.1	A
0.0	0.0	0.0	0.0	0.2	0.1	-0.2	C
0.0	0.1	-0.1	0.0	0.0	0.0	-0.0	AC
0.2	0.0	0.2	0.1	0.0	-0.1	-0.0	D
0.1	0.1	0.0	0.1	0.0	-0.2	-0.1	AD
0.0	0.0	0.0	0.0	0.0	0.0	-0.1	CD
0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.0	-0.0	-0.1	-0.0	-0.0	-0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	0.4	-0.0	-0.9	-0.1	-0.4	-0.3
@95%CB,	0.3	-0.0	-0.7	-0.1	-0.3	-0.2
@99%CB,	0.2	-0.0	-0.4	-0.0	-0.2	-0.1

"YATES" table for stove and rate for
Ti TITANIUM

MEAN VALUE	1	2	
0.0	0.0	0.1	Total
0.0	0.1	0.1	B
0.0	0.0	0.0	D
0.1	0.1	0.0	BD

	B Stove	D Rate	BD
Main Effects	0.1	0.0	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.6	0.2	0.2
Signif. if > +-1	0.5	0.1	0.1
Signif. if > +-1	0.3	0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Zn ZINC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
89.7	0.7	89.1	45.2	91.0	99.7	129.2	Total
45.8	45.8	0.0	45.8	8.7	29.5	2.9	A
0.3	7.8	-7.5	4.0	21.5	1.2	-95.8	C
0.5	8.8	-8.3	4.6	8.1	1.7	-0.0	AC
14.6	6.0	8.5	10.3	0.6	-82.4	-70.1	D
11.2	11.2	0.0	11.2	0.6	-13.4	0.5	AD
3.6	3.6	0.0	3.6	0.9	0.0	69.0	CD
7.4	1.5	5.9	4.5	0.9	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.7	-0.0	-23.9	-17.5	0.1	17.2
Error Variance	816.5					
Variance of Mean	408.2					
Stand. Deviation	20.2					
(Signif. if > +-1)						
@90%CB,	0.0	-0.0	-0.8	-0.6	0.0	0.6
@95%CB,	0.0	-0.0	-0.6	-0.4	0.0	0.4
@99%CB,	0.0	-0.0	-0.4	-0.3	0.0	0.3

"YATES" table for stove and rate for
Zn ZINC

MEAN VALUE	1	2	
0.0	45.2	59.6	Total
45.2	14.4	51.4	B
4.1	45.2	-30.8	D
10.3	6.2	-39.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	25.7	-15.4	-19.5
Error Variance	816.5		
Variance of Mean	612.4		
Stand. Deviation	28.6		
Signif. if > +-1	0.6	-0.4	-0.5
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.3	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ba BARIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
11.5	0.2	11.2	5.9	14.4	21.9	35.5	Total
8.6	8.6	0.0	8.6	7.5	13.5	6.3	A
0.0	4.8	-4.8	2.4	8.8	5.4	-10.9	C
0.6	9.6	-8.9	5.1	4.8	0.8	-0.0	AC
5.8	2.5	3.3	4.2	2.7	-6.9	-8.4	D
4.6	4.6	0.0	4.6	2.7	-4.0	-4.6	AD
2.2	2.2	0.0	2.2	0.4	-0.0	2.9	CD
4.1	1.1	3.1	2.6	0.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	1.6	-0.0	-2.7	-2.1	-1.1	0.7
Error Variance	24.9					
Variance of Mean	12.4					
Stand. Deviation	3.5					
(Signif. if > +-1)						
@90%CB,	0.3	-0.0	-0.5	-0.4	-0.2	0.1
@95%CB,	0.2	-0.0	-0.4	-0.3	-0.2	0.1
@99%CB,	0.1	-0.0	-0.2	-0.2	-0.1	0.1

"YATES" table for stove and rate for
Ba BARIUM

MEAN VALUE	1	2	
0.0	5.9	11.7	Total
5.9	5.8	8.4	B
1.6	5.9	-0.1	D
4.2	2.5	-3.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	4.2	-0.0	-1.7
Error Variance	24.9		
Variance of Mean	18.7		
Stand. Deviation	5.0		
Signif. if > +-1	0.6	-0.0	-0.2
Signif. if > +-1	0.4	-0.0	-0.2
Signif. if > +-1	0.3	-0.0	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ca CALCIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
12.2	0.4	11.8	6.3	16.2	23.0	38.0	Total
9.9	9.9	0.0	9.9	6.8	15.0	13.3	A
0.3	2.9	-2.6	1.6	10.3	7.4	-15.1	C
1.5	9.0	-7.5	5.3	4.6	5.9	0.0	AC
5.1	2.3	2.9	3.7	3.7	-9.4	-8.1	D
6.6	6.6	0.0	6.6	3.7	-5.7	-1.5	AD
0.8	0.8	0.0	0.8	3.0	0.0	3.7	CD
4.6	3.0	1.6	3.8	3.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	3.3	0.0	-3.8	-2.0	-0.4	0.9
Error Variance	21.3					
Variance of Mean	10.7					
Stand. Deviation	3.3					
(Signif. if > +-1)						
@90%CB,	0.7	0.0	-0.8	-0.4	-0.1	0.2
@95%CB,	0.5	0.0	-0.6	-0.3	-0.1	0.1
@99%CB,	0.3	0.0	-0.3	-0.2	-0.0	0.1

"YATES" table for stove and rate for
Ca CALCIUM

MEAN VALUE	1	2	
1.9	8.2	13.1	Total
6.3	4.9	6.8	B
1.2	4.4	-3.2	D
3.7	2.5	-1.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	3.4	-1.6	-1.0
Error Variance	21.3		
Variance of Mean	16.0		
Stand. Deviation	4.6		
Signif. if > +-1	0.5	-0.2	-0.1
Signif. if > +-1	0.4	-0.2	-0.1
Signif. if > +-1	0.2	-0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Cu COPPER

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.3	0.0	0.3	0.2	0.4	0.6	0.9	Total
0.3	0.3	0.0	0.3	0.2	0.3	0.4	A
0.0	0.1	-0.1	0.0	0.2	0.2	-0.4	C
0.0	0.3	-0.3	0.2	0.1	0.1	-0.0	AC
0.1	0.0	0.1	0.1	0.1	-0.2	-0.3	D
0.1	0.1	0.0	0.1	0.1	-0.1	-0.1	AD
0.0	0.0	0.0	0.0	0.1	-0.0	0.1	CD
0.1	0.0	0.1	0.1	0.1	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.1	-0.0	-0.1	-0.1	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	0.7	-0.0	-0.6	-0.6	-0.2	0.1
@95%CB,	0.5	-0.0	-0.5	-0.4	-0.1	0.1
@99%CB,	0.3	-0.0	-0.3	-0.3	-0.1	0.0

"YATES" table for stove and rate for
Cu COPPER

MEAN VALUE	1	2	
0.0	0.2	0.2	Total
0.2	0.1	0.2	B
0.0	0.2	-0.1	D
0.1	0.1	-0.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.1	-0.0	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.6	-0.2	-0.2
Signif. if > +-1	0.4	-0.1	-0.1
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for Fe IRON

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.7	0.0	0.7	0.4	1.2	1.9	2.7	Total
0.8	0.8	0.0	0.8	0.7	0.8	1.3	A
0.0	0.2	-0.2	0.1	0.5	0.9	-0.7	C
0.2	1.0	-0.8	0.6	0.3	0.4	0.0	AC
0.2	0.0	0.2	0.1	0.5	-0.5	-1.1	D
0.4	0.4	0.0	0.4	0.5	-0.2	-0.5	AD
0.0	0.0	0.0	0.0	0.2	0.0	0.3	CD
0.4	0.1	0.3	0.3	0.2	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.3	0.0	-0.2	-0.3	-0.1	0.1
Error Variance	0.1					
Variance of Mean	0.1					
Stand. Deviation	0.3					
(Signif. if > +-1)						
@90%CB,	0.9	0.0	-0.5	-0.7	-0.3	0.2
@95%CB,	0.6	0.0	-0.3	-0.5	-0.2	0.2
@99%CB,	0.4	0.0	-0.2	-0.3	-0.1	0.1

"YATES" table for stove and rate for Fe IRON

MEAN VALUE	1	2	
0.0	0.4	0.7	Total
0.4	0.2	0.4	B
0.1	0.3	-0.2	D
0.1	0.0	-0.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.2	-0.1	-0.1
Error Variance	0.1		
Variance of Mean	0.1		
Stand. Deviation	0.4		
Signif. if > +-1	0.3	-0.2	-0.3
Signif. if > +-1	0.2	-0.1	-0.2
Signif. if > +-1	0.1	-0.1	-0.1

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Mg MAGNESIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3.0	0.0	3.0	1.5	3.9	5.3	8.3	Total
2.4	2.4	0.0	2.4	1.4	3.1	2.9	A
0.1	0.4	-0.3	0.2	2.3	1.9	-4.1	C
0.2	2.1	-1.9	1.2	0.7	1.1	0.0	AC
1.3	0.5	0.8	0.9	0.9	-2.5	-2.2	D
1.4	1.4	0.0	1.4	0.9	-1.6	-0.8	AD
0.1	0.1	0.0	0.1	0.5	0.0	0.9	CD
1.0	0.3	0.7	0.6	0.5	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.7	0.0	-1.0	-0.6	-0.2	0.2
Error Variance	1.4					
Variance of Mean	0.7					
Stand. Deviation	0.8					
(Signif. if > +-1)						
@90%CB,	0.6	0.0	-0.8	-0.5	-0.2	0.2
@95%CB,	0.4	0.0	-0.6	-0.3	-0.1	0.1
@99%CB,	0.3	0.0	-0.4	-0.2	-0.1	0.1

"YATES" table for stove and rate for
Mg MAGNESIUM

MEAN VALUE	1	2	
0.1	1.6	2.4	Total
1.5	0.9	2.3	B
0.0	1.4	-0.7	D
0.9	0.9	-0.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	1.2	-0.3	-0.3
Error Variance	1.4		
Variance of Mean	1.0		
Stand. Deviation	1.2		
Signif. if > +-1	0.7	-0.2	-0.1
Signif. if > +-1	0.5	-0.1	-0.1
Signif. if > +-1	0.3	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Mn MANGANESE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.2	0.0	0.2	0.1	0.3	0.5	0.8	Total
0.2	0.2	0.0	0.2	0.1	0.3	0.3	A
0.0	0.1	-0.1	0.0	0.2	0.2	-0.2	C
0.1	0.1	-0.1	0.1	0.2	0.1	0.0	AC
0.0	0.0	0.0	0.0	0.1	-0.2	-0.2	D
0.1	0.1	0.0	0.1	0.1	0.0	-0.0	AD
0.0	0.0	0.0	0.0	0.1	0.0	0.2	CD
0.1	0.1	-0.0	0.1	0.1	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.1	0.0	-0.0	-0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.1					
(Signif. if > +-1)						
@90%CB,	0.9	0.0	-0.6	-0.5	-0.1	0.6
@95%CB,	0.7	0.0	-0.5	-0.4	-0.1	0.5
@99%CB,	0.4	0.0	-0.3	-0.2	-0.0	0.3

"YATES" table for stove and rate for
Mn MANGANESE

MEAN VALUE	1	2	
0.2	0.3	0.4	Total
0.1	0.1	-0.0	B
0.1	-0.0	-0.2	D
0.0	-0.0	0.0	BD

	B Stove	D Rate	BD
Main Effects	-0.0	-0.1	0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	-0.2	-0.8	0.0
Signif. if > +-1	-0.2	-0.6	0.0
Signif. if > +-1	-0.1	-0.4	0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Na SODIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
45.5	2.5	43.0	24.0	63.8	98.5	137.8	Total
39.8	39.8	0.0	39.8	34.7	39.3	47.9	A
0.9	17.9	-17.0	9.4	22.0	31.6	-33.8	C
6.5	44.0	-37.5	25.2	17.3	16.3	-0.0	AC
0.0	13.8	-13.8	6.9	15.8	-29.1	-59.2	D
15.1	15.1	0.0	15.1	15.8	-4.7	-15.3	AD
4.6	4.6	0.0	4.6	8.1	-0.0	24.5	CD
21.0	4.4	16.6	12.7	8.1	-0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	12.0	-0.0	-8.5	-14.8	-3.8	6.1
Error Variance	401.3					
Variance of Mean	200.6					
Stand. Deviation	14.2					
(Signif. if > +-1)						
@90%CB,	0.6	-0.0	-0.4	-0.7	-0.2	0.3
@95%CB,	0.4	-0.0	-0.3	-0.5	-0.1	0.2
@99%CB,	0.3	-0.0	-0.2	-0.3	-0.1	0.1

"YATES" table for stove and rate for
Na SODIUM

MEAN VALUE	1	2	
0.0	24.0	33.8	Total
24.0	9.8	28.0	B
2.9	24.0	-14.2	D
6.9	4.0	-20.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	14.0	-7.1	-10.0
Error Variance	401.3		
Variance of Mean	301.0		
Stand. Deviation	20.0		
Signif. if > +-1	0.5	-0.2	-0.3
Signif. if > +-1	0.3	-0.2	-0.2
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Sr STRONTIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.2	0.0	0.2	0.1	0.[illegible]	0.3	0.5	Total
0.1	0.1	0.0	0.1	0.1	0.2	0.2	A
0.0	0.1	-0.1	0.0	0.1	0.1	-0.2	C
0.0	0.1	-0.1	0.1	0.0	0.1	0.0	AC
0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	D
0.1	0.1	0.0	0.1	0.0	-0.1	0.0	AD
0.0	0.0	0.0	0.0	0.0	0.0	-0.0	CD
0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.0	0.0	-0.0	-0.0	0.0	-0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	0.6	0.0	-0.6	-0.6	0.0	-0.1
@95%CB,	0.5	0.0	-0.4	-0.4	0.0	-0.1
@99%CB,	0.3	0.0	-0.3	-0.2	0.0	-0.0

"YATES" table for stove and rate for
Sr STRONTIUM

MEAN VALUE	1	2	
0.0	0.1	0.2	Total
0.1	0.1	0.0	B
0.1	0.1	0.0	D
0.0	-0.0	-0.1	BD

	B Stove	D Rate	BD
Main Effects	0.0	0.0	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.1		
Signif. if > +-1	0.2	0.0	-0.4
Signif. if > +-1	0.2	0.0	-0.3
Signif. if > +-1	0.1	0.0	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Ti TITANIUM

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
0.1	0.0	0.1	0.0	0.1	0.1	0.2	Total
0.1	0.1	0.0	0.1	0.0	0.0	0.1	A
0.0	0.0	0.0	0.0	0.0	0.1	-0.1	C
0.0	0.1	-0.1	0.0	0.0	0.0	-0.0	AC
0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	D
0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	AD
0.0	0.0	0.0	0.0	0.0	-0.0	0.0	CD
0.0	0.0	0.0	0.0	0.0	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.0	-0.0	-0.0	-0.0	-0.0	0.0
Error Variance	0.0					
Variance of Mean	0.0					
Stand. Deviation	0.0					
(Signif. if > +-1)						
@90%CB,	0.5	-0.0	-0.8	-0.6	-0.5	0.1
@95%CB,	0.4	-0.0	-0.6	-0.5	-0.4	0.1
@99%CB,	0.2	-0.0	-0.4	-0.3	-0.2	0.1

"YATES" table for stove and rate for
Ti TITANIUM

MEAN VALUE	1	2	
0.0	0.0	0.1	Total
0.0	0.0	0.1	B
0.0	0.0	-0.0	D
0.0	0.0	-0.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	0.0	-0.0	-0.0
Error Variance	0.0		
Variance of Mean	0.0		
Stand. Deviation	0.0		
Signif. if > +-1	0.6	-0.1	-0.1
Signif. if > +-1	0.4	-0.1	-0.1
Signif. if > +-1	0.2	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
Zn ZINC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
76.1	0.4	75.6	38.2	77.7	83.7	93.8	Total
39.4	39.4	0.0	39.4	6.0	10.1	3.5	A
0.2	4.7	-4.5	2.4	7.1	2.4	-75.7	C
0.3	6.9	-6.5	3.6	3.0	1.1	-0.0	AC
4.6	1.9	2.7	3.3	1.2	-71.6	-73.6	D
3.8	3.8	0.0	3.8	1.2	-4.0	-1.3	AD
1.2	1.2	0.0	1.2	0.6	-0.0	67.6	CD
2.9	0.7	2.1	1.8	0.6	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	0.9	-0.0	-18.9	-18.4	-0.3	16.9
Error Variance	579.5					
Variance of Mean	289.7					
Stand. Deviation	17.0					
(Signif. if > +-1)						
@90%CB,	0.0	-0.0	-0.8	-0.7	-0.0	0.7
@95%CB,	0.0	-0.0	-0.6	-0.5	-0.0	0.5
@99%CB,	0.0	-0.0	-0.3	-0.3	-0.0	0.3

"YATES" table for stove and rate for
Zn ZINC

MEAN VALUE	1	2	
0.0	38.2	43.6	Total
38.2	5.4	39.4	B
2.1	38.2	-32.9	D
3.3	1.1	-37.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	19.7	-16.4	-18.6
Error Variance	579.5		
Variance of Mean	434.6		
Stand. Deviation	24.1		
Signif. if > +-1	0.6	-0.5	-0.5
Signif. if > +-1	0.4	-0.3	-0.4
Signif. if > +-1	0.2	-0.2	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for TOTAL HC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3569.6	1344.6	2225.0	2457.1	4208.9	7274.0	11573.3	Total
1751.8	1751.8	0.0	1751.8	3065.1	4299.3	-2324.0	A
745.2	3025.1	-2279.9	1885.2	1936.6	-1410.6	-717.8	C
821.6	1538.1	-716.5	1179.9	2362.7	-913.4	-0.0	AC
1249.3	1144.1	105.2	1196.7	-705.3	-1143.9	-2974.7	D
739.9	739.9	0.0	739.9	-705.3	426.1	497.2	AD
1355.9	1463.5	-107.5	1409.7	-456.7	0.0	1569.9	CD
1396.5	509.5	887.1	953.0	-456.7	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-581.0	-0.0	-179.4	-743.7	124.3	392.5
Error Variance	1145977.1					
Variance of Mean	572988.5					
Stand. Deviation	757.0					
(Signif. if > +-1)						
@90%CB,	-0.5	-0.0	-0.2	-0.7	0.1	0.4
@95%CB,	-0.4	-0.0	-0.1	-0.5	0.1	0.3
@99%CB,	-0.2	-0.0	-0.1	-0.3	0.0	0.2

"YATES" table for stove and rate for TOTAL HC

MEAN VALUE	1	2	
1868.5	4325.6	6760.4	Total
2457.1	2434.8	547.2	B
1238.1	588.6	-1890.8	D
1196.7	-41.5	-630.1	BD

	B Stove	D Rate	BD
Main Effects	273.6	-945.4	-315.1
Error Variance	1145977.1		
Variance of Mean	859482.8		
Stand. Deviation	1070.5		
Signif. if > +-1	0.2	-0.6	-0.2
Signif. if > +-1	0.1	-0.4	-0.1
Signif. if > +-1	0.1	-0.3	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL NMHC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1817.8	946.7	871.2	1382.3	2562.0	4732.9	7593.1	Total
1179.8	1179.8	0.0	1179.8	2170.8	2860.2	-1221.3	A
436.4	1936.8	-1500.4	1186.6	1021.4	-404.9	426.2	C
821.6	1146.7	-325.1	984.2	1838.9	-816.4	-0.0	AC
715.6	714.0	1.6	714.8	-202.5	-391.2	-1872.6	D
306.6	306.6	0.0	306.6	-202.5	817.5	-411.5	AD
1046.5	1200.6	-154.1	1123.5	-408.2	-0.0	1208.7	CD
1088.4	342.3	746.1	715.3	-408.2	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-305.3	-0.0	106.6	-468.2	-102.9	302.2
Error Variance	367243.8					
Variance of Mean	183621.9					
Stand. Deviation	428.5					
(Signif. if > +-1)						
@90%CB,	-0.5	-0.0	0.2	-0.7	-0.2	0.5
@95%CB,	-0.4	-0.0	0.1	-0.5	-0.1	0.3
@99%CB,	-0.2	-0.0	0.1	-0.3	-0.1	0.2

"YATES" table for stove and rate for
TOTAL NMHC

MEAN VALUE	1	2	
887.0	2269.3	3659.7	Total
1382.3	1390.4	534.4	B
675.6	495.2	-878.8	D
714.8	39.1	-456.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	267.2	-439.4	-228.0
Error Variance	367243.8		
Variance of Mean	275432.8		
Stand. Deviation	606.0		
Signif. if > +-1	0.3	-0.5	-0.3
Signif. if > +-1	0.2	-0.4	-0.2
Signif. if > +-1	0.1	-0.2	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for METHANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1751.8	397.9	1353.8	1074.9	1646.9	2541.1	3980.1	Total
572.0	572.0	0.0	572.0	894.2	1439.0	-1102.7	A
308.8	1088.3	-779.5	698.5	915.2	-1005.7	-1144.0	C
0.0	391.4	-391.4	195.7	523.8	-97.0	0.0	AC
533.7	430.1	103.6	481.9	-502.8	-752.6	-1102.1	D
433.4	433.4	0.0	433.4	-502.8	-391.4	908.7	AD
309.4	262.9	46.5	286.2	-48.5	0.0	361.2	CD
308.1	167.2	141.0	237.7	-48.5	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-275.7	0.0	-286.0	-275.5	227.2	90.3
Error Variance	262423.2					
Variance of Mean	131211.6					
Stand. Deviation	362.2					
(Signif. if > +-1)						
@90%CB,	-0.5	0.0	-0.5	-0.5	0.4	0.2
@95%CB,	-0.4	0.0	-0.4	-0.4	0.3	0.1
@99%CB,	-0.2	0.0	-0.2	-0.2	0.2	0.1

"YATES" table for stove and rate for METHANE

MEAN VALUE	1	2	
981.4	2056.3	3100.7	Total
1074.9	1044.4	12.8	B
562.5	93.4	-1011.9	D
481.9	-80.6	-174.1	BD

	B Stove	D Rate	BD
Main Effects	6.4	-506.0	-87.0
Error Variance	262423.2		
Variance of Mean	196817.4		
Stand. Deviation	512.3		
Signif. if > +-1	0.0	-0.7	-0.1
Signif. if > +-1	0.0	-0.5	-0.1
Signif. if > +-1	0.0	-0.3	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ETHANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
282.1	49.8	232.3	165.9	321.1	522.3	742.3	Total
155.2	155.2	0.0	155.2	201.2	220.0	-16.6	A
22.1	189.9	-167.8	106.0	95.9	-21.5	-91.6	C
75.0	115.5	-40.6	95.2	124.1	4.9	0.0	AC
49.8	43.6	6.1	46.7	-10.8	-119.8	-302.3	D
49.2	49.2	0.0	49.2	-10.8	28.3	26.4	AD
57.8	63.9	-6.1	60.8	2.5	0.0	148.1	CD
92.2	34.4	57.8	63.3	2.5	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	[illegible]	0.0	-22.9	-75.6	6.6	37.0
Error Variance	8711.7					
Variance of Mean	4355.8					
Stand. Deviation	66.0					
(Signif. if > +-1)						
@90%CB,	-0.0	0.0	-0.2	-0.8	0.1	0.4
@95%CB,	-0.0	0.0	-0.2	-0.6	0.0	0.3
@99%CB,	-0.0	0.0	-0.1	-0.3	0.0	0.2

"YATES" table for stove and rate for ETHANE

MEAN VALUE	1	2	
133.3	299.3	395.7	Total
165.9	96.5	29.5	B
49.8	32.6	-202.8	D
46.7	-3.1	-35.6	BD

	B Stove	D Rate	BD
Main Effects	14.7	-101.4	-17.8
Error Variance	8711.7		
Variance of Mean	6533.7		
Stand. Deviation	93.3		
Signif. if > +-1	0.1	-0.7	-0.1
Signif. if > +-1	0.1	-0.5	-0.1
Signif. if > +-1	0.0	-0.3	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ETHYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
434.5	326.2	108.3	380.3	667.2	1216.3	2209.1	Total
286.9	286.9	0.0	286.9	549.1	992.8	-288.9	A
115.2	527.3	-412.1	321.3	385.8	-186.9	103.2	C
188.0	267.7	-79.7	227.8	607.0	-102.0	0.0	AC
163.9	272.8	-108.9	218.4	-93.4	-118.1	-223.5	D
167.4	167.4	0.0	167.4	-93.4	221.3	84.8	AD
302.6	355.4	-52.7	329.0	-51.0	0.0	339.3	CD
334.2	221.8	112.3	278.0	-51.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-72.2	0.0	25.8	-55.9	21.2	84.8
Error Variance	21241.9					
Variance of Mean	10621.0					
Stand. Deviation	103.1					
(Signif. if > +-1)						
@90%CB,	-0.5	0.0	0.2	-0.4	0.1	0.6
@95%CB,	-0.3	0.0	0.1	-0.3	0.1	0.4
@99%CB,	-0.2	0.0	0.1	-0.2	0.1	0.2

"YATES" table for stove and rate for ETHYLENE

MEAN VALUE	1	2	
200.6	580.9	1079.0	Total
380.3	498.1	118.4	B
279.7	179.7	-82.8	D
218.4	-61.3	-241.0	BD

	B	D	BD
	Stove	Rate	
Main Effects	59.2	-41.4	-120.5
Error Variance	21241.9		
Variance of Mean	15931.4		
Stand. Deviation	145.7		
Signif. if > +-1	0.3	-0.2	-0.6
Signif. if > +-1	0.2	-0.1	-0.4
Signif. if > +-1	0.1	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PROPANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
85.3	8.4	76.9	46.9	90.4	141.2	180.8	Total
43.6	43.6	0.0	43.6	50.8	39.7	-0.0	A
4.8	49.3	-44.5	27.0	17.1	-6.6	-34.2	C
17.4	30.0	-12.6	23.7	22.5	6.6	0.0	AC
7.2	6.6	0.6	6.9	-3.3	-39.7	-101.5	D
10.2	10.2	0.0	10.2	-3.3	5.4	13.2	AD
6.6	12.6	-6.0	9.6	3.3	0.0	45.1	CD
19.8	6.0	13.8	12.9	3.3	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-0.0	0.0	-8.6	-25.4	3.3	11.3
Error Variance	824.1					
Variance of Mean	412.1					
Stand. Deviation	20.3					
(Signif. if > +-1)						
@90%CB,	-0.0	0.0	-0.3	-0.8	0.1	0.4
@95%CB,	-0.0	0.0	-0.2	-0.6	0.1	0.3
@99%CB,	-0.0	0.0	-0.1	-0.4	0.0	0.2

"YATES" table for stove and rate for PROPANE

MEAN VALUE	1	2	
13.2	60.1	75.4	Total
46.9	15.3	32.1	B
8.4	33.6	-44.8	D
6.9	-1.5	-35.1	BD

	B	D	BD
	Stove	Rate	
Main Effects	16.1	-22.4	-17.6
Error Variance	824.1		
Variance of Mean	618.1		
Stand. Deviation	28.7		
Signif. if > +-1	0.4	-0.5	-0.4
Signif. if > +-1	0.3	-0.4	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PROPENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
201.8	71.1	130.7	136.4	243.7	408.2	613.4	Total
107.2	107.2	0.0	107.2	164.5	205.2	-104.9	A
24.7	169.1	-144.5	96.9	77.1	-58.5	-28.1	C
54.5	80.8	-26.4	67.6	128.1	-46.4	0.0	AC
55.0	45.3	9.7	50.2	-29.2	-79.1	-202.9	D
26.9	26.9	0.0	26.9	-29.2	51.0	12.0	AD
71.1	80.3	-9.2	75.7	-23.2	0.0	130.1	CD
75.7	29.2	46.4	52.5	-23.2	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-26.2	0.0	-7.0	-50.7	3.0	32.5
Error Variance	4090.5					
Variance of Mean	2045.2					
Stand. Deviation	45.2					
(Signif. if > +-1)						
@90%CB,	-0.4	0.0	-0.1	-0.8	0.0	0.5
@95%CB,	-0.3	0.0	-0.1	-0.6	0.0	0.4
@99%CB,	-0.2	0.0	-0.0	-0.3	0.0	0.2

"YATES" table for stove and rate for PROPENE

MEAN VALUE	1	2	
48.2	184.6	285.8	Total
136.4	101.2	87.4	B
51.0	88.3	-83.4	D
50.2	-0.9	-89.1	BD

	B Stove	D Rate	BD
Main Effects	43.7	-41.7	-44.6
Error Variance	4090.5		
Variance of Mean	3067.8		
Stand. Deviation	64.0		
Signif. if > +-1	0.5	-0.4	-0.5
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for I-BUTANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
6.5	1.2	5.3	3.9	7.7	11.3	16.6	Total
3.9	3.9	0.0	3.9	3.6	5.3	1.2	A
0.6	3.0	-2.4	1.8	3.0	0.0	-4.8	C
1.8	1.8	0.0	1.8	2.4	1.2	-0.0	AC
1.2	1.2	0.0	1.2	0.0	-4.2	-5.9	D
1.8	1.8	0.0	1.8	0.0	-0.6	1.2	AD
1.2	0.6	0.6	0.9	0.6	0.0	3.6	CD
1.8	1.2	0.6	1.5	0.6	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.3	-0.0	-1.2	-1.5	0.3	0.9
Error Variance	3.5					
Variance of Mean	1.7					
Stand. Deviation	1.3					
(Signif. if > +-1)						
@90%CB,	0.2	-0.0	-0.6	-0.8	0.2	0.5
@95%CB,	0.1	-0.0	-0.4	-0.6	0.1	0.3
@99%CB,	0.1	-0.0	-0.3	-0.3	0.1	0.2

"YATES" table for stove and rate for I-BUTANE

MEAN VALUE	1	2	
1.2	5.0	7.4	Total
3.9	2.4	2.7	B
1.2	2.7	-2.7	D
1.2	0.0	-2.7	BD

	B Stove	D Rate	BD
Main Effects	1.3	-1.3	-1.3
Error Variance	3.5		
Variance of Mean	2.6		
Stand. Deviation	1.9		
Signif. if > +-1	0.5	-0.5	-0.5
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for N-BUTANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
13.1	1.2	11.9	7.1	14.8	22.6	29.1	Total
7.7	7.7	0.0	7.7	7.7	6.5	0.0	A
1.2	5.9	-4.8	3.6	1.8	1.2	-4.2	C
3.6	4.8	-1.2	4.2	4.8	-1.2	-0.0	AC
1.2	1.2	0.0	1.2	0.6	-7.1	-16.0	D
0.6	0.6	0.0	0.6	0.6	3.0	-2.4	AD
1.2	4.2	-3.0	2.7	-0.6	-0.0	10.1	CD
3.0	1.2	1.8	2.1	-0.6	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	0.0	-0.0	-1.0	-4.0	-0.6	2.5
Error Variance	16.8					
Variance of Mean	8.4					
Stand. Deviation	2.9					
(Signif. if > +-1)						
@90%CB,	0.0	-0.0	-0.2	-0.9	-0.1	0.6
@95%CB,	0.0	-0.0	-0.2	-0.7	-0.1	0.4
@99%CB,	0.0	-0.0	-0.1	-0.4	-0.1	0.3

"YATES" table for stove and rate for N-BUTANE

MEAN VALUE	1	2	
1.2	8.3	10.7	Total
7.1	2.4	5.9	B
1.2	5.9	-5.9	D
1.2	0.0	-5.9	BD

	B Stove	D Rate	BD
Main Effects	3.0	-3.0	-3.0
Error Variance	16.8		
Variance of Mean	12.6		
Stand. Deviation	4.1		
Signif. if > +-1	0.5	-0.5	-0.5
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
C6 HYDROCARBONS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
55.8	15.8	39.9	35.8	77.5	145.6	200.8	Total
41.7	41.7	0.0	41.7	68.1	55.2	4.1	A
11.2	51.1	-39.9	31.1	19.7	11.7	6.5	C
18.2	55.8	-37.6	37.0	35.5	-7.6	0.0	AC
13.5	10.0	3.5	11.7	5.9	-9.4	-90.4	D
7.9	7.9	0.0	7.9	5.9	15.8	-19.4	AD
15.8	23.5	-7.6	19.7	-3.8	0.0	25.2	CD
31.7	0.0	31.7	15.8	-3.8	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	1.0	0.0	1.6	-22.6	-4.8	6.3
Error Variance	561.5					
Variance of Mean	280.8					
Stand. Deviation	16.8					
(Signif. if > +-1)						
@90%CB,	0.0	0.0	0.1	-0.9	-0.2	0.3
@95%CB,	0.0	0.0	0.0	-0.7	-0.1	0.2
@99%CB,	0.0	0.0	0.0	-0.4	-0.1	0.1

"YATES" table for stove and rate for
C6 HYDROCARBONS

MEAN VALUE	1	2	
12.9	48.7	68.1	Total
35.8	19.4	27.0	B
7.6	22.9	-29.3	D
11.7	4.1	-18.8	BD

	B Stove	D Rate	BD
Main Effects	13.5	-14.7	-9.4
Error Variance	561.5		
Variance of Mean	421.1		
Stand. Deviation	23.7		
Signif. if > +-1	0.4	-0.4	-0.3
Signif. if > +-1	0.3	-0.3	-0.2
Signif. if > +-1	0.2	-0.2	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
28.5	24.3	4.2	26.4	98.1	199.6	265.7	Total
71.6	71.6	0.0	71.6	101.5	66.1	45.9	A
16.0	41.7	-25.7	28.9	20.9	89.0	27.8	C
125.2	20.2	105.0	72.7	45.2	-43.1	-2.8	AC
22.3	19.5	2.8	20.9	45.2	3.5	-133.5	D
0.0	0.0	0.0	0.0	43.8	24.3	-132.1	AD
33.4	34.1	-0.7	33.7	-20.9	-1.4	20.9	CD
23.0	0.0	23.0	11.5	-22.3	-1.4	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	11.5	-0.7	7.0	-33.4	-33.0	5.2
Error Variance	1224.3					
Variance of Mean	612.2					
Stand. Deviation	24.7					
(Signif. if > +-1)						
@90%CB,	0.3	-0.0	0.2	-0.9	-0.9	0.1
@95%CB,	0.2	-0.0	0.1	-0.7	-0.7	0.1
@99%CB,	0.1	-0.0	0.1	-0.4	-0.4	0.1

"YATES" table for stove and rate for FURAN

MEAN VALUE	1	2	
8.3	34.8	64.7	Total
26.4	29.9	29.9	B
9.0	18.1	-4.9	D
20.9	11.8	-6.3	BD

	B Stove	D Rate	BD
Main Effects	15.0	-2.4	-3.1
Error Variance	1224.3		
Variance of Mean	918.3		
Stand. Deviation	35.0		
Signif. if > +-1	0.3	-0.0	-0.1
Signif. if > +-1	0.2	-0.0	-0.0
Signif. if > +-1	0.1	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2,5-DIMETHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
29.5	2.0	27.5	15.7	42.2	70.1	86.4	Total
26.5	26.5	0.0	26.5	27.8	16.4	30.1	A
2.0	15.1	-13.1	8.5	7.5	21.6	-13.1	C
13.1	25.5	-12.4	19.3	8.8	8.5	-0.0	AC
2.0	1.3	0.7	1.6	10.8	-14.4	-53.7	D
5.9	5.9	0.0	5.9	10.8	1.3	-13.1	AD
2.0	2.6	-0.7	2.3	4.3	-0.0	15.7	CD
13.1	0.0	13.1	6.5	4.3	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	7.5	-0.0	-3.3	-13.4	-3.3	3.9
Error Variance	125.5					
Variance of Mean	62.7					
Stand. Deviation	7.9					
(Signif. if > +-1)						
@90%CB,	0.6	-0.0	-0.3	-1.1	-0.3	0.3
@95%CB,	0.5	-0.0	-0.2	-0.8	-0.2	0.2
@99%CB,	0.3	-0.0	-0.1	-0.5	-0.1	0.1

"YATES" table for stove and rate for
2,5-DIMETHYL FURAN

MEAN VALUE	1	2	
2.0	17.7	20.6	Total
15.7	2.9	14.1	B
1.3	13.8	-14.7	D
1.6	0.3	-13.4	BD

	B Stove	D Rate	BD
Main Effects	7.0	-7.4	-6.7
Error Variance	125.5		
Variance of Mean	94.1		
Stand. Deviation	11.2		
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for FURFURAL

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
61.3	12.6	48.7	36.9	94.6	186.1	234.0	Total
57.7	57.7	0.0	57.7	91.5	47.9	45.6	A
7.1	63.6	-56.5	35.3	15.3	41.6	14.1	C
33.8	78.5	-44.8	56.2	32.6	3.9	-0.0	AC
6.3	7.1	-0.8	6.7	20.8	-3.1	-138.2	D
8.6	8.6	0.0	8.6	20.8	17.3	-37.7	AD
18.8	11.8	7.1	15.3	2.0	0.0	20.4	CD
34.6	0.0	34.6	17.3	2.0	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	11.4	-0.0	3.5	-34.6	-9.4	5.1
Error Variance	876.8					
Variance of Mean	438.4					
Stand. Deviation	20.9					
(Signif. if > +-1)						
@90%CB,	0.4	-0.0	0.1	-1.1	-0.3	0.2
@95%CB,	0.3	-0.0	0.1	-0.8	-0.2	0.1
@99%CB,	0.2	-0.0	0.1	-0.5	-0.1	0.1

"YATES" table for stove and rate for FURFURAL

MEAN VALUE	1	2	
6.3	43.2	56.2	Total
36.9	13.0	31.0	B
6.3	30.6	-30.2	D
6.7	0.4	-30.2	BD

	B Stove	D Rate	BD
Main Effects	15.5	-15.1	-15.1
Error Variance	876.8		
Variance of Mean	657.6		
Stand. Deviation	29.6		
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
O-XYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19.5	22.2	-2.7	20.9	45.0	75.9	106.3	Total
24.1	24.1	0.0	24.1	30.9	30.4	-36.9	A
8.1	41.2	-33.1	24.7	0.0	-15.2	16.3	C
4.3	8.1	-3.8	6.2	30.4	-21.7	-43.4	AC
0.0	0.0	0.0	0.0	3.3	-14.1	-45.6	D
0.0	0.0	0.0	0.0	-18.4	30.4	-6.5	AD
32.5	19.5	13.0	26.0	0.0	-21.7	44.5	CD
8.7	0.0	8.7	4.3	-21.7	-21.7	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-9.2	-10.8	4.1	-11.4	-1.6	11.1
Error Variance	119.2					
Variance of Mean	59.6					
Stand. Deviation	7.7					
(Signif. if > +-1)						
@90%CB,	-0.8	-1.0	0.4	-1.0	-0.1	1.0
@95%CB,	-0.6	-0.7	0.3	-0.7	-0.1	0.7
@99%CB,	-0.4	-0.4	0.2	-0.4	-0.1	0.4

"YATES" table for stove and rate for
O-XYLENE

MEAN VALUE	1	2	
12.5	33.4	46.4	Total
20.9	13.0	-4.6	B
13.0	8.4	-20.3	D
0.0	-13.0	-21.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	-2.3	-10.2	-10.7
Error Variance	119.2		
Variance of Mean	89.4		
Stand. Deviation	10.9		
Signif. if > +-1	-0.1	-0.6	-0.7
Signif. if > +-1	-0.1	-0.5	-0.5
Signif. if > +-1	-0.1	-0.3	-0.3

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL HC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
39540.5	16159.5	23381.0	27850.0	52397.7	89925.2	170124.7	Total
24547.7	24547.7	0.0	24547.7	37527.5	80199.6	-20194.4	A
8636.5	32193.3	-23556.8	20414.9	38262.6	-6604.7	-11195.7	C
12626.7	21598.5	-8971.8	17112.6	41937.0	-13589.7	0.0	AC
23718.5	21338.9	2379.6	22528.7	-3302.3	-14870.2	-9725.6	D
15733.9	15733.9	0.0	15733.9	-3302.3	3674.5	-6985.0	AD
27460.4	21271.4	6189.0	24365.9	-6794.8	0.0	18544.6	CD
26355.0	8787.2	17567.8	17571.1	-6794.8	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-5048.6	0.0	-2798.9	-2431.4	-1746.2	4636.2
Error Variance	149637392.0					
Variance of Mean	74818696.0					
Stand. Deviation	8649.8					
(Signif. if > +-1)						
@90%CB,	-0.4	0.0	-0.2	-0.2	-0.1	0.4
@95%CB,	-0.3	0.0	-0.2	-0.1	-0.1	0.3
@99%CB,	-0.2	0.0	-0.1	-0.1	-0.1	0.2

"YATES" table for stove and rate for
TOTAL HC

MEAN VALUE	1	2	
19254.5	47104.6	86204.6	Total
27850.0	39100.1	14552.8	B
16571.4	8595.5	-8004.5	D
22528.7	5957.3	-2638.1	BD

	B Stove	D Rate	BD
Main Effects	7276.4	-4002.3	-1319.1
Error Variance	149637392.0		
Variance of Mean	112228044.0		
Stand. Deviation	12232.6		
Signif. if > +-1	0.4	-0.2	-0.1
Signif. if > +-1	0.3	-0.2	-0.1
Signif. if > +-1	0.2	-0.1	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL NMHC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
20136.2	11377.0	8759.2	15756.6	33043.0	60242.4	113589.6	Total
17286.4	17286.4	0.0	17286.4	27199.4	53347.2	-9140.6	A
5058.0	20611.7	-15553.6	12834.8	20803.5	3059.5	5896.7	C
12626.7	16102.5	-3475.9	14364.6	32543.7	-12200.2	-0.0	AC
13586.5	13317.2	269.3	13451.8	1529.8	-5843.5	-6895.2	D
7351.7	7351.7	0.0	7351.7	1529.8	11740.2	-15259.7	AD
21193.6	17450.2	3743.3	19321.9	-6100.1	-0.0	17583.7	CD
20539.9	5903.7	14636.2	13221.8	-6100.1	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-2285.2	-0.0	1474.2	-1723.8	-3814.9	4395.9
Error Variance	54501347.8					
Variance of Mean	27250673.9					
Stand. Deviation	5220.2					
(Signif. if > +-1)						
@90%CB,	-0.3	-0.0	0.2	-0.2	-0.5	0.6
@95%CB,	-0.2	-0.0	0.1	-0.2	-0.4	0.4
@99%CB,	-0.1	-0.0	0.1	-0.1	-0.2	0.3

"YATES" table for stove and rate for
TOTAL NMHC

MEAN VALUE	1	2	
9140.9	24897.5	47392.1	Total
15756.6	22494.6	11024.7	B
9042.8	6615.7	-2402.9	D
13451.8	4409.0	-2206.7	BD

	B Stove	D Rate	BD
Main Effects	5512.4	-1201.4	-1103.4
Error Variance	54501347.8		
Variance of Mean	40876010.9		
Stand. Deviation	7382.5		
Signif. if > +-1	0.5	-0.1	-0.1
Signif. if > +-1	0.4	-0.1	-0.1
Signif. if > +-1	0.2	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for METHANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
19404.3	4782.6	14621.7	12093.4	19354.7	29682.8	56535.1	Total
7261.3	7261.3	0.0	7261.3	10328.1	26852.3	-11053.7	A
3578.5	11581.6	-8003.1	7580.1	17459.0	-9664.2	-17092.4	C
0.0	5495.9	-5495.9	2748.0	9393.3	-1389.5	0.0	AC
10132.0	8021.7	2110.3	9076.9	-4832.1	-9026.6	-2830.5	D
8382.1	8382.1	0.0	8382.1	-4832.1	-8065.7	8274.8	AD
6266.8	3821.2	2445.7	5044.0	-694.7	0.0	960.9	CD
5815.1	2883.5	2931.6	4349.3	-694.7	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-2763.4	0.0	-4273.1	-707.6	2068.7	240.2
Error Variance	32109757.8					
Variance of Mean	16054878.9					
Stand. Deviation	4006.9					
(Signif. if > +-1)						
@90%CB,	-0.5	0.0	-0.7	-0.1	0.3	0.0
@95%CB,	-0.3	0.0	-0.5	-0.1	0.3	0.0
@99%CB,	-0.2	0.0	-0.3	-0.1	0.2	0.0

"YATES" table for stove and rate for METHANE

MEAN VALUE	1	2	
10113.7	22207.1	38812.5	Total
12093.4	16605.4	3528.1	B
7528.6	1979.7	-5601.6	D
9076.9	1548.3	-431.4	BD

	B Stove	D Rate	BD
Main Effects	1764.0	-2800.8	-215.7
Error Variance	32109757.8		
Variance of Mean	24082318.4		
Stand. Deviation	5666.5		
Signif. if > +-1	0.2	-0.3	-0.0
Signif. if > +-1	0.2	-0.2	-0.0
Signif. if > +-1	0.1	-0.1	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ETHANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3124.3	598.2	2526.1	1861.3	3971.1	6496.9	10588.7	Total
2109.9	2109.9	0.0	2109.9	2525.7	4091.9	731.6	A
256.4	2020.7	-1764.3	1138.5	1876.0	497.3	-1105.5	C
1152.1	1622.2	-470.1	1387.2	2215.9	234.3	-0.0	AC
945.0	813.8	131.2	879.4	248.6	-1445.4	-2405.0	D
996.6	996.6	0.0	996.6	248.6	339.9	-262.9	AD
1169.8	928.9	240.9	1049.4	117.2	-0.0	1785.4	CD
1739.5	593.5	1146.0	1166.5	117.2	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	182.9	-0.0	-276.4	-601.2	-65.7	446.3
Error Variance	1104576.1					
Variance of Mean	552288.1					
Stand. Deviation	743.2					
(Signif. if > +-1)						
@90%CB,	0.2	-0.0	-0.3	-0.5	-0.1	0.4
@95%CB,	0.1	-0.0	-0.2	-0.4	-0.0	0.3
@99%CB,	0.1	-0.0	-0.1	-0.2	-0.0	0.2

"YATES" table for stove and rate for ETHANE

MEAN VALUE	1	2	
1374.1	3235.4	4781.0	Total
1861.3	1545.6	700.3	B
666.2	487.1	-1689.8	D
879.4	213.2	-273.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	350.2	-844.9	-137.0
Error Variance	1104576.1		
Variance of Mean	828432.1		
Stand. Deviation	1051.0		
Signif. if > +-1	0.2	-0.5	-0.1
Signif. if > +-1	0.2	-0.4	-0.1
Signif. if > +-1	0.1	-0.2	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ETHYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
4812.8	3919.7	893.1	4366.2	8583.0	15380.6	33714.8	Total
4216.7	4216.7	0.0	4216.7	6797.7	18334.2	-1461.2	A
1335.2	5612.0	-4276.8	3473.6	7620.5	-299.0	1307.9	C
2889.3	3758.8	-869.5	3324.1	10713.7	-1162.1	-0.0	AC
3112.5	5089.1	-1976.6	4100.8	-149.5	-1785.3	2953.6	D
3519.7	3519.7	0.0	3519.7	-149.5	3093.2	-863.1	AD
6129.3	5165.5	963.8	5647.4	-581.1	-0.0	4878.5	CD
6306.6	3826.1	2480.5	5066.3	-581.1	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-365.3	-0.0	327.0	738.4	-215.8	1219.6
Error Variance	2990424.8					
Variance of Mean	1495212.4					
Stand. Deviation	1222.8					
(Signif. if > +-1)						
@90%CB,	-0.2	-0.0	0.2	0.4	-0.1	0.7
@95%CB,	-0.1	-0.0	0.1	0.3	-0.1	0.5
@99%CB,	-0.1	-0.0	0.1	0.2	-0.1	0.3

"YATES" table for stove and rate for ETHYLENE

MEAN VALUE	1	2	
2067.4	6433.6	14278.2	Total
4366.2	7844.6	2655.8	B
3743.8	2298.8	1410.9	D
4100.8	357.0	-1941.9	BD

	B	D	BD
	Stove	Rate	
Main Effects	1327.9	705.5	-970.9
Error Variance	2990424.8		
Variance of Mean	2242818.6		
Stand. Deviation	1729.3		
Signif. if > +-1	0.5	0.3	-0.4
Signif. if > +-1	0.4	0.2	-0.3
Signif. if > +-1	0.2	0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PROPANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
945.0	101.1	843.9	523.1	1100.9	1735.7	2473.6	Total
577.9	577.9	0.0	577.9	634.8	737.9	270.2	A
55.7	524.3	-468.6	290.0	340.4	109.6	-409.0	C
267.8	421.8	-154.1	344.8	397.5	160.6	-0.0	AC
136.9	123.3	13.6	130.1	54.8	-466.1	-997.7	D
210.4	210.4	0.0	210.4	54.8	57.1	51.0	AD
133.8	183.4	-49.5	158.6	80.3	-0.0	523.2	CD
374.2	103.6	270.5	238.9	80.3	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	67.5	-0.0	-102.3	-249.4	12.7	130.8
Error Variance	102890.4					
Variance of Mean	51445.2					
Stand. Deviation	226.8					
(Signif. if > +-1)						
@90%CB,	0.2	-0.0	-0.3	-0.7	0.0	0.4
@95%CB,	0.1	-0.0	-0.2	-0.5	0.0	0.3
@99%CB,	0.1	-0.0	-0.1	-0.3	0.0	0.2

"YATES" table for stove and rate for PROPANE

MEAN VALUE	1	2	
136.2	659.3	901.9	Total
523.1	242.6	404.3	B
112.6	386.8	-416.6	D
130.1	17.5	-369.3	BD

	B Stove	D Rate	BD
Main Effects	202.2	-208.3	-184.7
Error Variance	102890.4		
Variance of Mean	77167.8		
Stand. Deviation	320.8		
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PROPENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
2235.4	854.4	1381.0	1544.9	3033.0	5061.8	8883.9	Total
1488.1	1488.1	0.0	1488.1	2028.8	3822.1	-787.3	A
285.7	1799.8	-1514.1	1042.8	1552.8	-113.4	-287.6	C
837.0	1135.1	-298.1	986.0	2269.4	-673.9	0.0	AC
1044.9	844.8	200.2	944.8	-56.7	-1004.2	-1239.6	D
607.9	607.9	0.0	607.9	-56.7	716.6	-560.4	AD
1439.7	1166.6	273.1	1303.2	-336.9	0.0	1720.8	CD
1428.1	504.3	923.8	966.2	-336.9	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-196.8	0.0	-71.9	-309.9	-140.1	430.2
Error Variance	518216.4					
Variance of Mean	259108.2					
Stand. Deviation	509.0					
(Signif. if > +-1)						
@90%CB,	-0.3	0.0	-0.1	-0.4	-0.2	0.6
@95%CB,	-0.2	0.0	-0.1	-0.3	-0.1	0.4
@99%CB,	-0.1	0.0	-0.0	-0.2	-0.1	0.3

"YATES" table for stove and rate for PROPENE

MEAN VALUE	1	2	
496.3	2041.1	3668.9	Total
1544.9	1627.7	1310.5	B
682.9	1048.6	-413.4	D
944.8	261.9	-786.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	655.3	-206.7	-393.3
Error Variance	518216.4		
Variance of Mean	388662.3		
Stand. Deviation	719.9		
Signif. if > +-1	0.6	-0.2	-0.4
Signif. if > +-1	0.5	-0.1	-0.3
Signif. if > +-1	0.3	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for I-BUTANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
72.4	14.3	58.1	43.3	93.6	139.0	237.8	Total
50.3	50.3	0.0	50.3	45.4	98.8	35.3	A
6.9	31.6	-24.7	19.2	55.4	13.9	-60.2	C
27.4	25.0	2.4	26.2	43.4	21.4	0.0	AC
22.5	22.2	0.4	22.3	7.0	-48.1	-40.2	D
33.1	33.1	0.0	33.1	7.0	-12.0	7.5	AD
24.1	8.6	15.4	16.3	10.7	0.0	36.1	CD
33.6	20.5	13.1	27.1	10.7	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	8.8	0.0	-15.0	-10.1	1.9	9.0
Error Variance	416.2					
Variance of Mean	208.1					
Stand. Deviation	14.4					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	-0.7	-0.5	0.1	0.4
@95%CB,	0.3	0.0	-0.5	-0.3	0.1	0.3
@99%CB,	0.2	0.0	-0.3	-0.2	0.0	0.2

"YATES" table for stove and rate for I-BUTANE

MEAN VALUE	1	2	
12.2	55.6	93.8	Total
43.3	38.2	37.5	B
15.9	31.1	-17.3	D
22.3	6.5	-24.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	18.8	-8.7	-12.3
Error Variance	416.2		
Variance of Mean	312.2		
Stand. Deviation	20.4		
Signif. if > +-1	0.6	-0.3	-0.4
Signif. if > +-1	0.5	-0.2	-0.3
Signif. if > +-1	0.3	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for N-BUTANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
144.7	14.3	130.4	79.5	181.2	280.4	401.6	Total
101.7	101.7	0.0	101.7	99.2	121.2	36.6	A
13.8	63.2	-49.4	38.5	40.7	44.5	-42.3	C
54.8	66.7	-12.0	60.7	80.5	-8.0	0.0	AC
22.5	22.2	0.4	22.3	22.3	-82.0	-159.2	D
18.4	18.4	0.0	18.4	22.3	39.8	-52.5	AD
24.1	60.4	-36.4	42.2	-4.0	0.0	121.8	CD
56.0	20.5	35.5	38.3	-4.0	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	9.1	0.0	-10.6	-39.8	-13.1	30.4
Error Variance	2086.3					
Variance of Mean	1043.1					
Stand. Deviation	32.3					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.2	-0.8	-0.3	0.6
@95%CB,	0.1	0.0	-0.2	-0.6	-0.2	0.5
@99%CB,	0.1	0.0	-0.1	-0.4	-0.1	0.3

"YATES" table for stove and rate for N-BUTANE

MEAN VALUE	1	2	
12.2	91.7	130.0	Total
79.5	38.2	73.7	B
15.9	67.3	-53.5	D
22.3	6.5	-60.8	BD

	B	D	BD
	Stove	Rate	
Main Effects	36.9	-26.7	-30.4
Error Variance	2086.3		
Variance of Mean	1564.7		
Stand. Deviation	45.7		
Signif. if > +-1	0.5	-0.4	-0.5
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BUTENES

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
190.5	813.0	-622.5	501.8	998.3	3092.1	6400.1	Total
496.6	496.6	0.0	496.6	2093.8	3308.0	-1243.9	A
524.9	1574.1	-1049.2	1049.5	1079.1	-10.4	2245.2	C
881.0	1207.5	-326.5	1044.3	2228.9	-1233.5	-0.0	AC
968.7	727.1	241.6	847.9	-5.2	1095.4	215.8	D
231.2	231.2	0.0	231.2	-5.2	1149.8	-1223.2	AD
1579.0	1266.6	312.4	1422.8	-616.8	-0.0	54.3	CD
1612.1	0.0	1612.1	806.0	-616.8	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-311.0	-0.0	561.3	54.0	-305.8	13.6
Error Variance	425208.7					
Variance of Mean	212604.3					
Stand. Deviation	461.1					
(Signif. if > +-1)						
@90%CB,	-0.5	-0.0	0.8	0.1	-0.4	0.0
@95%CB,	-0.3	-0.0	0.6	0.1	-0.3	0.0
@99%CB,	-0.2	-0.0	0.4	0.0	-0.2	0.0

"YATES" table for stove and rate for BUTENES

MEAN VALUE	1	2	
561.2	1063.0	2471.1	Total
501.8	1408.1	228.3	B
560.1	-59.5	345.1	D
847.9	287.8	347.3	BD

	B Stove	D Rate	BD
Main Effects	114.2	172.5	173.6
Error Variance	425208.7		
Variance of Mean	318906.5		
Stand. Deviation	652.1		
Signif. if > +-1	0.1	0.2	0.2
Signif. if > +-1	0.1	0.1	0.1
Signif. if > +-1	0.1	0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PENTENES

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1161.9	282.4	879.5	722.2	1921.2	3105.4	4888.4	Total
1199.0	1199.0	0.0	1199.0	1184.2	1783.1	1409.4	A
146.1	561.2	-415.1	353.7	1004.9	953.7	-963.8	C
687.1	973.9	-286.8	830.5	778.1	455.8	-0.0	AC
413.5	363.5	50.0	388.5	476.8	-737.0	-1322.3	D
616.4	616.4	0.0	616.4	476.8	-226.8	-497.9	AD
267.0	283.3	-16.3	275.1	227.9	-0.0	510.2	CD
1006.0	0.0	1006.0	503.0	227.9	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	352.4	-0.0	-241.0	-330.6	-124.5	127.6
Error Variance	204262.4					
Variance of Mean	102131.2					
Stand. Deviation	319.6					
(Signif. if > +-1)						
@90%CB,	0.7	-0.0	-0.5	-0.7	-0.3	0.3
@95%CB,	0.5	-0.0	-0.4	-0.5	-0.2	0.2
@99%CB,	0.3	-0.0	-0.2	-0.3	-0.1	0.1

"YATES" table for stove and rate for PENTENES

MEAN VALUE	1	2	
112.2	834.4	1361.0	Total
722.2	526.6	860.4	B
138.1	610.0	-307.8	D
388.5	250.4	-359.5	BD

	B Stove	D Rate	BD
Main Effects	430.2	-153.9	-179.8
Error Variance	204262.4		
Variance of Mean	153196.8		
Stand. Deviation	452.0		
Signif. if > +-1	0.6	-0.2	-0.3
Signif. if > +-1	0.5	-0.2	-0.2
Signif. if > +-1	0.3	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
C6 HYDROCARBONS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
617.7	190.5	427.2	404.1	1003.2	1870.9	2911.5	Total
599.1	599.1	0.0	599.1	867.7	1040.7	325.9	A
129.3	543.5	-414.2	336.4	410.4	390.0	84.3	C
279.7	783.1	-503.4	531.4	630.2	-64.1	0.0	AC
256.3	186.1	70.2	221.2	195.0	-135.5	-830.2	D
189.2	189.2	0.0	189.2	195.0	219.8	-454.0	AD
321.0	341.3	-20.3	331.1	-32.0	0.0	355.3	CD
598.2	0.0	598.2	299.1	-32.0	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	81.5	0.0	21.1	-207.6	-113.5	88.8
Error Variance	97030.1					
Variance of Mean	48515.1					
Stand. Deviation	220.3					
(Signif. if > +-1)						
@90%CB,	0.3	0.0	0.1	-0.6	-0.3	0.3
@95%CB,	0.2	0.0	0.0	-0.5	-0.3	0.2
@99%CB,	0.1	0.0	0.0	-0.3	-0.2	0.1

"YATES" table for stove and rate for
C6 HYDROCARBONS

MEAN VALUE	1	2	
133.1	537.2	860.5	Total
404.1	323.4	390.1	B
102.1	271.0	-213.8	D
221.2	119.1	-151.9	BD

	B Stove	D Rate	BD
Main Effects	195.1	-106.9	-76.0
Error Variance	97030.1		
Variance of Mean	72772.6		
Stand. Deviation	311.5		
Signif. if > +-1	0.4	-0.2	-0.2
Signif. if > +-1	0.3	-0.2	-0.1
Signif. if > +-1	0.2	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
2-METHYL FURAN

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1345.5	80.7	1264.9	713.1	2195.7	3638.3	4955.0	Total
1482.6	1482.6	0.0	1482.6	1442.6	1316.7	2259.4	A
108.9	564.2	-455.3	336.5	575.0	1539.0	-586.4	C
845.7	1366.4	-520.7	1106.1	741.7	720.3	-0.0	AC
114.7	100.1	14.5	107.4	769.5	-753.1	-2321.6	D
467.6	467.6	0.0	467.6	769.5	166.7	-818.7	AD
176.7	204.8	-28.2	190.8	360.2	-0.0	919.8	CD
1101.9	0.0	1101.9	550.9	360.2	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	564.8	-0.0	-146.6	-580.4	-204.7	229.9
Error Variance	329263.1					
Variance of Mean	164631.6					
Stand. Deviation	405.7					
(Signif. if > +-1)						
@90%CB,	0.9	-0.0	-0.2	-1.0	-0.3	0.4
@95%CB,	0.7	-0.0	-0.2	-0.7	-0.3	0.3
@99%CB,	0.4	-0.0	-0.1	-0.4	-0.1	0.2

"YATES" table for stove and rate for
2-METHYL FURAN

MEAN VALUE	1	2	
2219.9	2933.0	3094.3	Total
713.1	161.3	-1453.3	B
53.9	-1506.9	-2771.7	D
107.4	53.5	1560.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	-726.7	-1385.9	780.2
Error Variance	329263.1		
Variance of Mean	246947.3		
Stand. Deviation	573.8		
Signif. if > +-1	-0.9	-1.6	0.9
Signif. if > +-1	-0.6	-1.2	0.7
Signif. if > +-1	-0.4	-0.7	0.4

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL HC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
29289.3	11970.0	17319.2	20629.6	38813.1	66611.2	126018.3	Total
18183.5	18183.5	0.0	18183.5	27798.2	59407.1	-14958.8	A
6397.4	23846.9	-17449.4	15122.2	28342.6	-4892.4	-8293.1	C
9353.1	15998.9	-6645.8	12676.0	31064.4	-10066.4	0.0	AC
17569.3	15806.6	1762.7	16687.9	-2446.2	-11014.9	-7204.2	D
11654.7	11654.7	0.0	11654.7	-2446.2	2721.8	-5174.0	AD
20341.0	15756.6	4584.4	18048.8	-5033.2	0.0	13736.8	CD
19522.2	6509.0	13013.2	13015.6	-5033.2	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-3739.7	0.0	-2073.3	-1801.0	-1293.5	3434.2
Error Variance	82105564.9					
Variance of Mean	41052782.4					
Stand. Deviation	6407.2					
(Signif. if > +-1)						
@90%CB,	-0.4	0.0	-0.2	-0.2	-0.1	0.4
@95%CB,	-0.3	0.0	-0.2	-0.1	-0.1	0.3
@99%CB,	-0.2	0.0	-0.1	-0.1	-0.1	0.2

"YATES" table for stove and rate for
TOTAL HC

MEAN VALUE	1	2	
14262.6	34892.3	63855.3	Total
20629.6	28963.0	10779.8	B
12275.1	6367.0	-5929.3	D
16687.9	4412.8	-1954.2	BD

	B Stove	D Rate	BD
Main Effects	5389.9	-2964.6	-977.1
Error Variance	82105564.9		
Variance of Mean	61579173.7		
Stand. Deviation	9061.2		
Signif. if > +-1	0.4	-0.2	-0.1
Signif. if > +-1	0.3	-0.2	-0.1
Signif. if > +-1	0.2	-0.1	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
TOTAL NMHC

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
14915.7	8427.4	6488.3	11671.6	24476.3	44624.0	84140.5	Total
12804.7	12804.7	0.0	12804.7	20147.7	39516.5	-6770.8	A
3746.7	15267.9	-11521.2	9507.3	15410.0	2266.3	4367.9	C
9353.1	11927.8	-2574.7	10640.4	24106.5	-9037.2	0.0	AC
10064.0	9864.6	199.5	9964.3	1133.2	-4328.5	-5107.5	D
5445.7	5445.7	0.0	5445.7	1133.2	8696.4	-11303.5	AD
15698.9	12926.1	2772.8	14312.5	-4518.6	0.0	13025.0	CD
15214.8	4373.1	10841.6	9793.9	-4518.6	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-1692.7	0.0	1092.0	-1276.9	-2825.9	3256.2
Error Variance	29904717.6					
Variance of Mean	14952358.8					
Stand. Deviation	3866.8					
(Signif. if > +-1)						
@90%CB,	-0.3	0.0	0.2	-0.2	-0.5	0.6
@95%CB,	-0.2	0.0	0.1	-0.2	-0.4	0.4
@99%CB,	-0.1	0.0	0.1	-0.1	-0.2	0.3

"YATES" table for stove and rate for
TOTAL NMHC

MEAN VALUE	1	2	
6771.0	18442.6	35105.2	Total
11671.6	16662.7	8166.5	B
6698.4	4900.5	-1779.9	D
9964.3	3265.9	-1634.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	4083.2	-890.0	-817.3
Error Variance	29904717.6		
Variance of Mean	22428538.2		
Stand. Deviation	5468.5		
Signif. if > +-1	0.5	-0.1	-0.1
Signif. if > +-1	0.4	-0.1	-0.1
Signif. if > +-1	0.2	-0.0	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for METHANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
14373.5	3542.6	10830.9	8958.1	14336.8	21987.2	41877.9	Total
5378.7	5378.7	0.0	5378.7	7650.4	19890.6	-8187.9	A
2650.8	8579.0	-5928.2	5614.9	12932.6	-7158.7	-12661.0	C
0.0	4071.1	-4071.1	2035.5	6958.0	-1029.2	-0.0	AC
7505.2	5942.0	1563.2	6723.6	-3579.3	-6686.4	-2096.6	D
6209.0	6209.0	0.0	6209.0	-3579.3	-5974.6	6129.5	AD
4642.1	2830.5	1811.6	3736.3	-514.6	0.0	711.8	CD
4307.5	2135.9	2171.5	3221.7	-514.6	-0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	-2047.0	-0.0	-3165.3	-524.2	1532.4	177.9
Error Variance	17618522.8					
Variance of Mean	8809261.4					
Stand. Deviation	2968.0					
(Signif. if > +-1)						
@90%CB,	-0.5	-0.0	-0.7	-0.1	0.3	0.0
@95%CB,	-0.3	-0.0	-0.5	-0.1	0.3	0.0
@99%CB,	-0.2	-0.0	-0.3	-0.1	0.2	0.0

"YATES" table for stove and rate for METHANE

MEAN VALUE	1	2	
7491.6	16449.7	28750.0	Total
8958.1	12300.3	2613.4	B
5576.7	1466.5	-4149.4	D
6723.6	1146.9	-319.6	BD

	B Stove	D Rate	BD
Main Effects	1306.7	-2074.7	-159.8
Error Variance	17618522.8		
Variance of Mean	13213892.1		
Stand. Deviation	4197.4		
Signif. if > +-1	0.2	-0.3	-0.0
Signif. if > +-1	0.2	-0.2	-0.0
Signif. if > +-1	0.1	-0.1	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ETHANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
2314.3	443.1	1871.2	1378.7	2941.6	4812.5	7843.5	Total
1562.9	1562.9	0.0	1562.9	1870.9	3031.0	541.9	A
189.9	1496.8	-1306.9	843.4	1389.6	368.3	-818.9	C
853.4	1201.6	-348.2	1027.5	1641.4	173.6	0.0	AC
700.0	602.8	97.2	651.4	184.2	-1070.7	-1781.5	D
738.2	738.2	0.0	738.2	184.2	251.8	-194.8	AD
866.5	688.1	178.5	777.3	86.8	0.0	1322.5	CD
1288.5	439.7	848.9	864.1	86.8	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	135.5	0.0	-204.7	-445.4	-48.7	330.6
Error Variance	606077.4					
Variance of Mean	303038.7					
Stand. Deviation	550.5					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.3	-0.5	-0.1	0.4
@95%CB,	0.1	0.0	-0.2	-0.4	-0.0	0.3
@99%CB,	0.1	0.0	-0.1	-0.2	-0.0	0.2

"YATES" table for stove and rate for ETHANE

MEAN VALUE	1	2	
1017.9	2396.6	3541.5	Total
1378.7	1144.9	518.8	B
493.5	360.8	-1251.7	D
651.4	157.9	-202.9	BD

	B Stove	D Rate	BD
Main Effects	259.4	-625.9	-101.4
Error Variance	606077.4		
Variance of Mean	454558.1		
Stand. Deviation	778.5		
Signif. if > +-1	0.2	-0.5	-0.1
Signif. if > +-1	0.2	-0.4	-0.1
Signif. if > +-1	0.1	-0.2	-0.0

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for ETHYLENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
3565.0	2903.5	661.6	3234.3	6357.7	11393.1	24974.0	Total
3123.5	3123.5	0.0	3123.5	5035.3	13580.9	-1082.3	A
989.0	4157.0	-3168.0	2573.0	5644.8	-221.5	968.8	C
2140.2	2784.3	-644.1	2462.3	7936.1	-860.8	0.0	AC
2305.5	3769.7	-1464.1	3037.6	-110.8	-1322.4	2187.8	D
2607.2	2607.2	0.0	2607.2	-110.8	2291.3	-639.3	AD
4540.2	3826.3	713.9	4183.2	-430.4	0.0	3613.7	CD
4671.5	2834.1	1837.4	3752.8	-430.4	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-270.6	0.0	242.2	547.0	-159.8	903.4
Error Variance	1640836.7					
Variance of Mean	820418.3					
Stand. Deviation	905.8					
(Signif. if > +-1)						
@90%CB,	-0.2	0.0	0.2	0.4	-0.1	0.7
@95%CB,	-0.1	0.0	0.1	0.3	-0.1	0.5
@99%CB,	-0.1	0.0	0.1	0.2	-0.1	0.3

"YATES" table for stove and rate for ETHYLENE

MEAN VALUE	1	2	
1531.4	4765.7	10576.4	Total
3234.3	5810.8	1967.3	B
2773.2	1702.9	1045.1	D
3037.6	264.4	-1438.4	BD

	B	D	BD
	Stove	Rate	
Main Effects	983.6	522.6	-719.2
Error Variance	1640836.7		
Variance of Mean	1230627.5		
Stand. Deviation	1281.0		
Signif. if > +-1	0.5	0.3	-0.4
Signif. if > +-1	0.4	0.2	-0.3
Signif. if > +-1	0.2	0.1	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PROPANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
700.0	74.9	625.1	387.4	815.5	1285.7	1832.3	Total
428.0	428.0	0.0	428.0	470.2	546.6	200.1	A
41.3	388.4	-347.1	214.8	252.2	81.2	-303.0	C
198.3	312.5	-114.1	255.4	294.5	118.9	0.0	AC
101.4	91.3	10.1	96.4	40.6	-345.3	-739.1	D
155.8	155.8	0.0	155.8	40.6	42.3	37.8	AD
99.1	135.8	-36.7	117.5	59.5	0.0	387.6	CD
277.2	76.8	200.4	177.0	59.5	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	50.0	0.0	-75.7	-184.8	9.4	96.9
Error Variance	56455.6					
Variance of Mean	28227.8					
Stand. Deviation	168.0					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.3	-0.7	0.0	0.4
@95%CB,	0.1	0.0	-0.2	-0.5	0.0	0.3
@99%CB,	0.1	0.0	-0.1	-0.3	0.0	0.2

"YATES" table for stove and rate for PROPANE

MEAN VALUE	1	2	
100.9	488.3	668.1	Total
387.4	179.7	299.5	B
83.4	286.6	-308.6	D
96.4	13.0	-273.6	BD

	B	D	BD
	Stove	Rate	
Main Effects	149.8	-154.3	-136.8
Error Variance	56455.6		
Variance of Mean	42341.7		
Stand. Deviation	237.6		
Signif. if > +-1	0.4	-0.4	-0.4
Signif. if > +-1	0.3	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PROPENE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
1655.8	632.9	1023.0	1144.3	2246.7	3749.5	6580.7	Total
1102.3	1102.3	0.0	1102.3	1502.8	2831.2	-583.2	A
211.6	1333.2	-1121.6	772.4	1150.2	-84.0	-213.0	C
620.0	840.8	-220.8	730.4	1681.0	-499.2	-0.0	AC
774.0	625.7	148.3	699.9	-42.0	-743.9	-918.3	D
450.3	450.3	0.0	450.3	-42.0	530.8	-415.1	AD
1066.4	864.2	202.3	965.3	-249.6	-0.0	1274.7	CD
1057.9	373.6	684.3	715.7	-249.6	-0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-145.8	-0.0	-53.3	-229.6	-103.8	318.7
Error Variance	284343.7					
Variance of Mean	142171.8					
Stand. Deviation	377.1					
(Signif. if > +-1)						
@90%CB,	-0.3	-0.0	-0.1	-0.4	-0.2	0.6
@95%CB,	-0.2	-0.0	-0.1	-0.3	-0.1	0.4
@99%CB,	-0.1	-0.0	-0.0	-0.2	-0.1	0.3

"YATES" table for stove and rate for PROPENE

MEAN VALUE	1	2	
367.6	1511.9	2717.7	Total
1144.3	1205.7	970.8	B
505.9	776.7	-306.2	D
699.9	194.0	-582.7	BD

	B	D	BD
	Stove	Rate	
Main Effects	485.4	-153.1	-291.4
Error Variance	284343.7		
Variance of Mean	213257.8		
Stand. Deviation	533.2		
Signif. if > +-1	0.6	-0.2	-0.4
Signif. if > +-1	0.5	-0.1	-0.3
Signif. if > +-1	0.3	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for I-BUTANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
53.6	10.6	43.0	32.1	69.3	103.0	176.2	Total
37.2	37.2	0.0	37.2	33.7	73.2	26.2	A
5.1	23.4	-18.3	14.3	41.0	10.3	-44.6	C
20.3	18.5	1.7	19.4	32.1	15.9	0.0	AC
16.7	16.4	0.3	16.6	5.2	-35.7	-29.8	D
24.5	24.5	0.0	24.5	5.2	-8.9	5.6	AD
17.8	6.4	11.4	12.1	7.9	0.0	26.8	CD
24.9	15.2	9.7	20.0	7.9	0.0	0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	6.5	0.0	-11.1	-7.4	1.4	6.7
Error Variance	228.4					
Variance of Mean	114.2					
Stand. Deviation	10.7					
(Signif. if > +-1)						
@90%CB,	0.4	0.0	-0.7	-0.5	0.1	0.4
@95%CB,	0.3	0.0	-0.5	-0.3	0.1	0.3
@99%CB,	0.2	0.0	-0.3	-0.2	0.0	0.2

"YATES" table for stove and rate for I-BUTANE

MEAN VALUE	1	2	
9.1	41.1	69.5	Total
32.1	28.3	27.8	B
11.8	23.0	-12.8	D
16.6	4.8	-18.2	BD

	B Stove	D Rate	BD
Main Effects	13.9	-6.4	-9.1
Error Variance	228.4		
Variance of Mean	171.3		
Stand. Deviation	15.1		
Signif. if > +-1	0.6	-0.3	-0.4
Signif. if > +-1	0.5	-0.2	-0.3
Signif. if > +-1	0.3	-0.1	-0.2

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for N-BUTANE

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
107.2	10.6	96.6	58.9	134.2	207.7	297.5	Total
75.4	75.4	0.0	75.4	73.5	89.8	27.1	A
10.2	46.8	-36.6	28.5	30.2	33.0	-31.3	C
40.6	49.4	-8.9	45.0	59.6	-5.9	0.0	AC
16.7	16.4	0.3	16.6	16.5	-60.8	-117.9	D
13.6	13.6	0.0	13.6	16.5	29.5	-38.9	AD
17.8	44.8	-26.9	31.3	-2.9	0.0	90.2	CD
41.5	15.2	26.3	28.3	-2.9	0.0	-0.0	ACD

	A Fuel	AC	C Altitude	D Rate	AD	CD
Main Effects	6.8	0.0	-7.8	-29.5	-9.7	22.6
Error Variance	1144.7					
Variance of Mean	572.4					
Stand. Deviation	23.9					
(Signif. if > +-1)						
@90%CB,	0.2	0.0	-0.2	-0.8	-0.3	0.6
@95%CB,	0.1	0.0	-0.2	-0.6	-0.2	0.5
@99%CB,	0.1	0.0	-0.1	-0.4	-0.1	0.3

"YATES" table for stove and rate for N-BUTANE

MEAN VALUE	1	2	
9.1	67.9	96.3	Total
58.9	28.3	54.6	B
11.8	49.8	-39.6	D
16.6	4.8	-45.0	BD

	B Stove	D Rate	BD
Main Effects	27.3	-19.8	-22.5
Error Variance	1144.7		
Variance of Mean	858.5		
Stand. Deviation	33.8		
Signif. if > +-1	0.5	-0.4	-0.5
Signif. if > +-1	0.4	-0.3	-0.3
Signif. if > +-1	0.2	-0.2	-0.2

Results from LACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for BUTENES

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
141.1	602.2	-461.1	371.7	739.5	2290.5	4740.8	Total
367.8	367.8	0.0	367.8	1550.9	2450.3	-921.4	A
388.8	1166.0	-777.2	777.4	799.3	-7.7	1663.1	C
652.6	894.5	-241.8	773.6	1651.0	-913.7	-0.0	AC
717.6	538.6	179.0	628.1	-3.8	811.4	159.9	D
171.2	171.2	0.0	171.2	-3.8	851.7	-906.1	AD
1169.6	938.2	231.4	1053.9	-456.9	-0.0	40.2	CD
1194.1	0.0	1194.1	597.1	-456.9	0.0	0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	-230.4	-0.0	415.8	40.0	-226.5	10.1
Error Variance	233310.7					
Variance of Mean	116655.3					
Stand. Deviation	341.5					
(Signif. if > +-1)						
@90%CB,	-0.5	-0.0	0.8	0.1	-0.4	0.0
@95%CB,	-0.3	-0.0	0.6	0.1	-0.3	0.0
@99%CB,	-0.2	-0.0	0.4	0.0	-0.2	0.0

"YATES" table for stove and rate for BUTENES

MEAN VALUE	1	2	
415.7	787.4	1830.4	Total
371.7	1043.0	169.1	B
414.9	-44.1	255.6	D
628.1	213.2	257.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	84.6	127.8	128.6
Error Variance	233310.7		
Variance of Mean	174983.0		
Stand. Deviation	483.0		
Signif. if > +-1	0.1	0.2	0.2
Signif. if > +-1	0.1	0.1	0.1
Signif. if > +-1	0.1	0.1	0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for PENTENES

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
860.7	209.2	651.5	535.0	1423.1	2300.3	3621.1	Total
888.2	888.2	0.0	888.2	877.2	1320.8	1044.0	A
108.3	415.7	-307.5	262.0	744.4	706.4	-713.9	C
509.0	721.4	-212.5	615.2	576.4	337.6	0.0	AC
306.3	269.3	37.1	287.8	353.2	-545.9	-979.5	D
456.6	456.6	0.0	456.6	353.2	-168.0	-368.8	AD
197.8	209.8	-12.1	203.8	168.8	0.0	378.0	CD
745.2	0.0	745.2	372.6	168.8	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	261.0	0.0	-178.5	-244.9	-92.2	94.5
Error Variance	112078.1					
Variance of Mean	56039.1					
Stand. Deviation	236.7					
(Signif. if > +-1)						
@90%CB,	0.7	0.0	-0.5	-0.7	-0.3	0.3
@95%CB,	0.5	0.0	-0.4	-0.5	-0.2	0.2
@99%CB,	0.3	0.0	-0.2	-0.3	-0.1	0.1

"YATES" table for stove and rate for PENTENES

MEAN VALUE	1	2	
83.1	618.1	1008.2	Total
535.0	390.1	637.3	B
102.3	451.8	-228.0	D
287.8	185.5	-266.3	BD

	B	D	BD
	Stove	Rate	
Main Effects	318.7	-114.0	-133.2
Error Variance	112078.1		
Variance of Mean	84058.6		
Stand. Deviation	334.8		
Signif. if > +-1	0.6	-0.2	-0.3
Signif. if > +-1	0.5	-0.2	-0.2
Signif. if > +-1	0.3	-0.1	-0.1

Results from IACP Boise source lab study

"YATES" table for fuel, altitude and burnrate for
C6 HYDROCARBONS

FIRST VALUE	SECOND VALUE	DIFFERENCE	MEAN VALUE	1	2	3	
457.6	141.1	316.5	299.3	743.1	1385.8	2156.7	Total
443.8	443.8	0.0	443.8	642.8	770.9	241.4	A
95.7	402.6	-306.8	249.2	304.0	288.9	62.5	C
207.1	580.0	-372.9	393.6	466.8	-47.4	0.0	AC
189.9	137.9	52.0	163.9	144.4	-100.3	-615.0	D
140.2	140.2	0.0	140.2	144.4	162.8	-336.3	AD
237.8	252.8	-15.0	245.3	-23.7	0.0	263.1	CD
443.1	0.0	443.1	221.6	-23.7	0.0	-0.0	ACD

	A	AC	C	D	AD	CD
	Fuel		Altitude	Rate		
Main Effects	60.4	0.0	15.6	-153.7	-84.1	65.8
Error Variance	53240.1					
Variance of Mean	26620.1					
Stand. Deviation	163.2					
(Signif. if > +-1)						
@90%CB,	0.3	0.0	0.1	-0.6	-0.3	0.3
@95%CB,	0.2	0.0	0.0	-0.5	-0.3	0.2
@99%CB,	0.1	0.0	0.0	-0.3	-0.2	0.1

"YATES" table for stove and rate for
C6 HYDROCARBONS

MEAN VALUE	1	2	
98.6	397.9	637.4	Total
299.3	239.5	289.0	B
75.7	200.7	-158.4	D
163.9	88.2	-112.5	BD

	B	D	BD
	Stove	Rate	
Main Effects	144.5	-79.2	-56.3
Error Variance	53240.1		
Variance of Mean	39930.1		
Stand. Deviation	230.7		
Signif. if > +-1	0.4	-0.2	-0.2
Signif. if > +-1	0.3	-0.2	-0.1
Signif. if > +-1	0.2	-0.1	-0.1